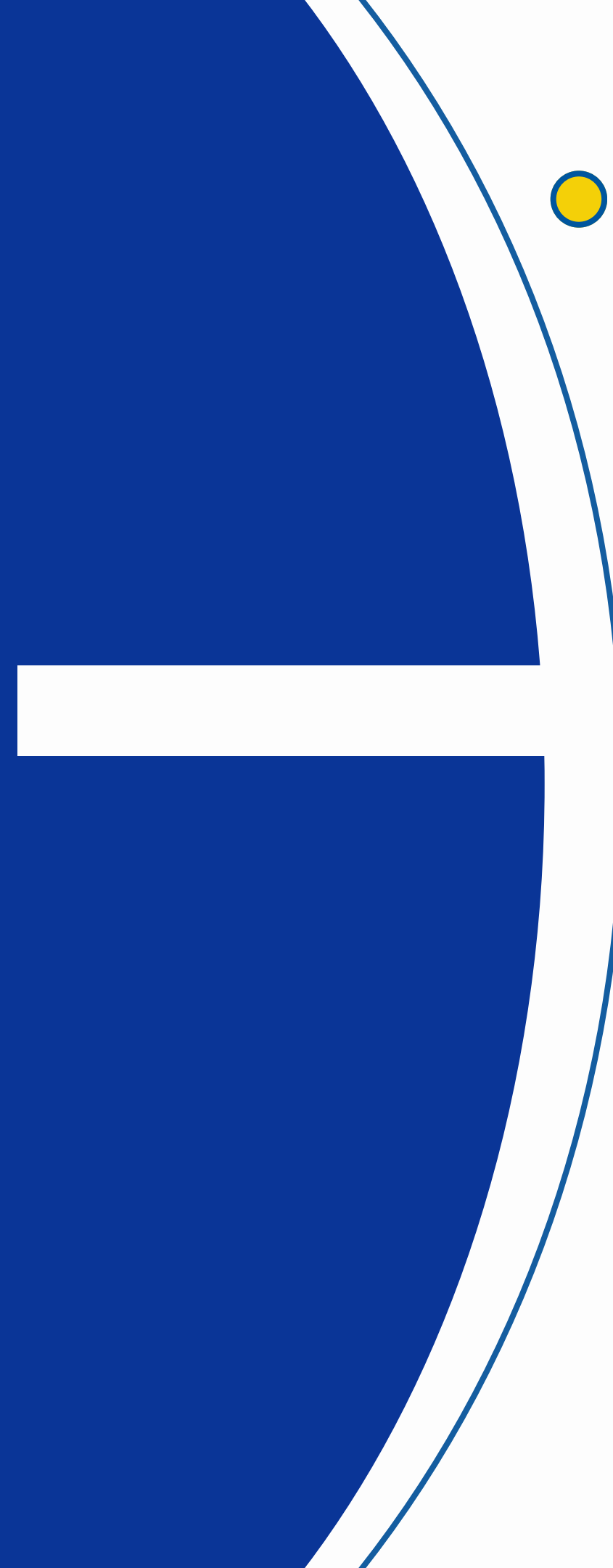


MENGENAL ANALISIS BIBLIOMETRIK SEBAGAI SEBUAH PENDEKATAN STUDI PUSTAKA

Arif Cahyo Bachtiar
arifcahyo@uui.ac.id



- 
- Apa itu analisis bibliometrik?
 - Apa yang perlu disiapkan untuk riset bibliometrik?
 - Bagaimana metode dan analisis bibliometrik?
 - Teknik pengumpulan data
 - Data *cleaning* dan analisis
 - Tools Pendukung

Analisis Bibliometrik



Seberapa cepat karya ilmiah diproduksi?

“A new scientific paper is published **every 30 seconds** and there are 10,000 updates to PubMed every day. It is **impossible** for humans alone to process all of the **complex information** potentially available to them for the advancement of scientific research.”

James Chandler, November 2016, BenevolentAI

A vertical illustration on the left side of the slide shows a man in a white shirt and red tie standing in a library, looking at books on a shelf.

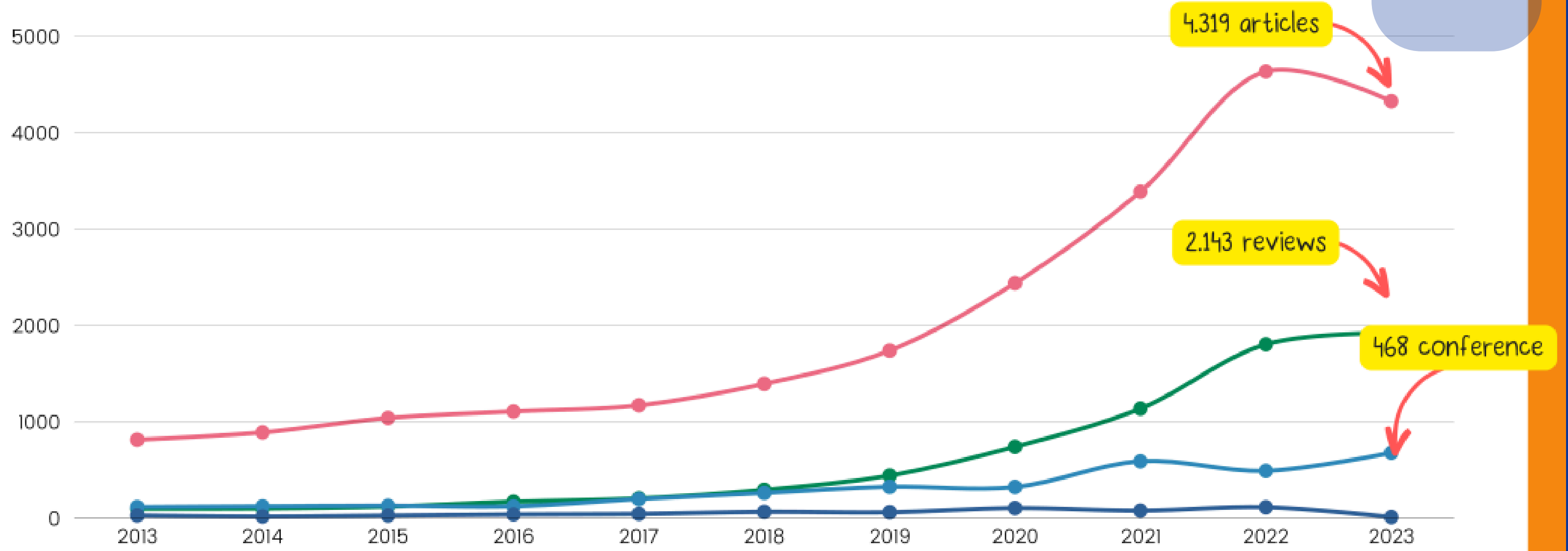
Apa itu analisis bibliometrik?



"Bibliometric analysis is a statistical evaluation of **published** scientific articles, books, or the chapters of a book, and it is an effectual way to measure the **influence of publication** in the scientific community."

Iftikhar, P. M., Ali, F., Faisaluddin, M., Khayyat, A., De Gouvia De Sa, M., & Rao, T. (2019). A bibliometric analysis of the top 30 most-cited articles in gestational diabetes mellitus literature (1946-2019). *Cureus*. <https://doi.org/10.7759/cureus.4131>

Bagaimana perkembangan analisis bibliometrik?



data dari Scopus, 23 Oktober 2023 dengan keywords pencarian bibliometric OR bibliometrics



Perbedaan analisis bibliometrik dengan metode studi pustaka lainnya

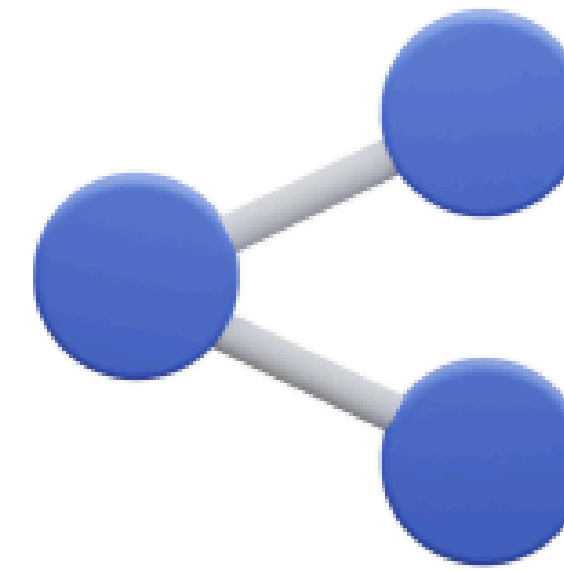
| Jenis Review | Tujuan Utama | Ciri Khas Metode | Contoh Topik |
|---|---|--|---|
| Bibliometrik | Menganalisis pola publikasi dan tren riset secara kuantitatif | Analisis jumlah publikasi, <u>sitasi</u> , co-authorship, co-word, dan journal mapping | "Tren penelitian tentang kecemasan akademik mahasiswa dalam 20 tahun terakhir: Analisis <u>bibliometrik</u> dari Scopus" |
| Scoping Review | Menggambarkan peta pengetahuan dan identifikasi kesenjangan riset | Mencakup banyak jenis studi tanpa penilaian kualitas; luas namun tidak dalam | "Apa saja intervensi psikologi positif untuk meningkatkan kesejahteraan mental pada remaja? Scoping review terhadap 50 studi global" |
| Systematic Literature Review (SLR) | Menjawab pertanyaan riset spesifik secara sistematis dan terstruktur | Seleksi ketat, kriteria inklusi-eksklusi jelas, menyusun bukti dari studi primer | "Apakah mindfulness efektif dalam mengurangi stres kerja pada tenaga kesehatan? Sebuah systematic review" |
| Meta-Analisis | Menggabungkan hasil kuantitatif dari banyak studi serupa untuk simpulan statistik | Hanya menggunakan studi kuantitatif; hitung effect size (misalnya Cohen's d) | "Efektivitas terapi kognitif-perilaku dalam menurunkan depresi pada remaja: Meta-analisis dari 25 studi eksperimental dengan total 2.000 peserta" |

Apa tujuan utama analisis bibliometrik?



Research Performance

mengevaluasi performa riset & publikasi individu/institusi/negara



Science Mapping

mengungkap struktur & dinamisasi suatu topik kajian



Apa kelebihan & kekurangan analisis bibliometrik?



Kelebihan

- kuantitatif terkesan lbh objektif
- prosedur yg transparan
- hasil dapat direproduksi dgn metode yang sama
- relatif singkat dan tidak mahal
- relatif cepat dilakukan
- dapat digunakan untuk melihat level individu, institusi, nasional, maupun internasional

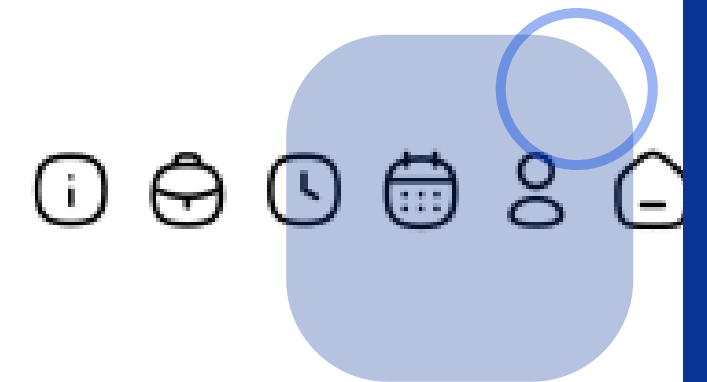
Kekurangan

- kutipan tidak selalu mengindikasikan kualitas yg bagus
- metrik mudah "dimainkan" oleh peneliti & pengelola jurnal
- ada variasi antar bidang studi, termasuk perbedaan frekuensi publikasi dan budaya sitasi
- bbrp merasa bibliometrik krg memberi nilai tambah

The Open University. (2022). Pros and cons of bibliometrics.

<https://www.open.ac.uk/library-research-support/bibliometrics/pros-and-cons-bibliometrics>

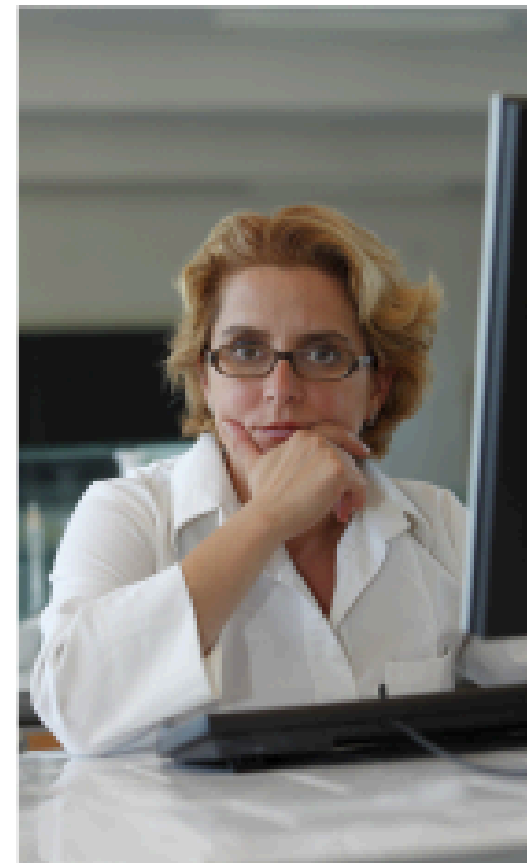
Apa manfaat bibliometrik untuk peneliti?



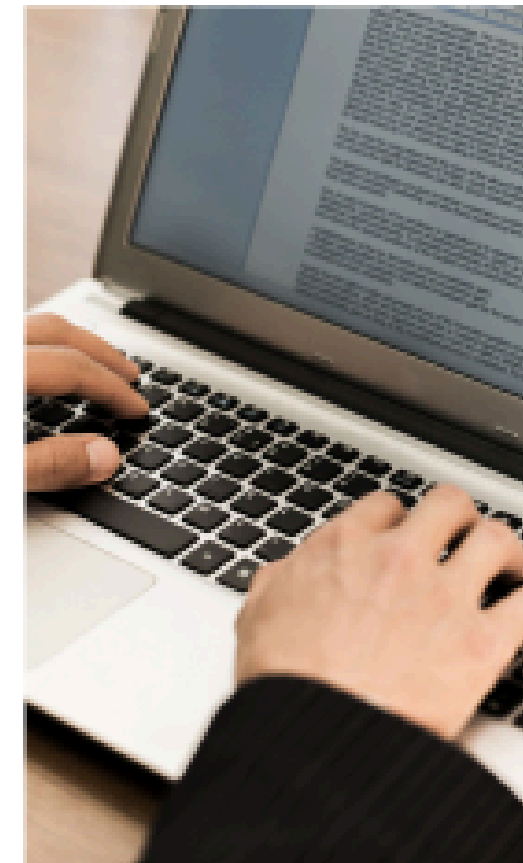
jurnal dan paper inti
topik yang ditekuni



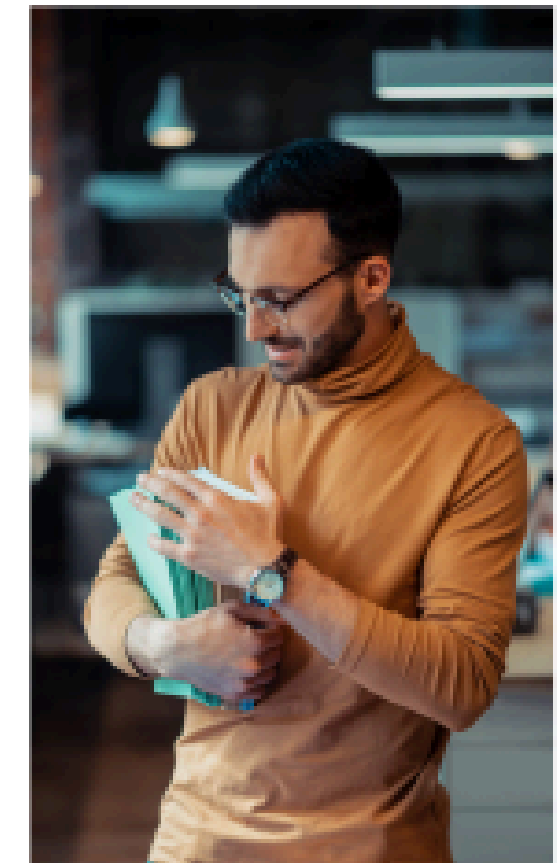
penulis berpengaruh
dan calon kolaborator



tren & peluang riset
berikutnya



tinjauan pustaka yg
lebih komprehensif



peluang terbit paper
sebagai luaran riset


Find articles with these terms

burnout AND bibliometric



 Advanced search

329 results

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Refine by:


Subscribed journals

Years

2025 (53)


2024 (78)

2023 (69)

Show more 

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sorted by *relevance* | *date*


Research article  Full text access

¹ **A bibliometric overview of research on emergency nursing and burnout**

International Emergency Nursing, June 2025

Senay Karadag Arli

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
Research article  Full text access

² **A bibliometric study of compassion fatigue, compassion satisfaction, secondary traumatic stress, and professional quality of life in nursing research**

Applied Nursing Research, June 2025

Neta Roitenberg

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Review article  Full text access

³ **Job Satisfaction Among Health-Care Practitioners: A Bibliometric Analysis**

Journal of Radiology Nursing, March 2025

Sangita Saha, Saibal Kumar Saha, ... Shailendra Kumar

 View PDF  Abstract  Figures  Export


Research article  Open access

⁴ **Knowledge mapping of job burnout and satisfaction of medical staff and a cross-sectional investigation of county-level hospitals in Southern China**

Heliyon, 15 July 2024

Baoren Tu, Yi Yang, ... Quan Zhuang

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Research article  Full text access

⁵ **Emotional intelligence in tourism and hospitality: A bibliometric analysis**

International Journal of Hospitality Management, July 2025

Bruno Santucci de Oliveira, Ana Paula Lisboa Sohn

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Research article  Full text access

⁶ **Workplace Violence in the Emergency Department: A Bibliometric Analysis**

Journal of Emergency Nursing, Available online 8 May 2025

Ruoxi Chen, Li Ji, ... Luo Fan

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Find articles with these terms

"financial technology" AND bibliometric



Advanced search

296 results

Set search alert

Refine by:

Subscribed journals

Years

2026 (18)

2025 (86)

2024 (92)

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Article type

Review articles (85)

Research articles (189)

Encyclopedia (3)

Data articles (1)

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Compare insights

Review article

1 Financial technology's role in International Journal of Law and Mc Mohammad Zakaria AlQudah, Husr

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Imen Khanchel, Naima Lassoued, Cyrine Khiari

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4 Financial technology research: Past and future trajectories

International Review of Economics & Finance, June 2024

Mingting Kou, Yuanqi Yang, Kaihua Chen

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5 An Approach to Automate the Scientific Paper's Evaluation Based on NLP Technologies: the Experience in the Russian Segment of Financial Technologies Field

Procedia Computer Science, 2023

Elena Terentieva, Kristina Zheltova, Alexey Dukhanov

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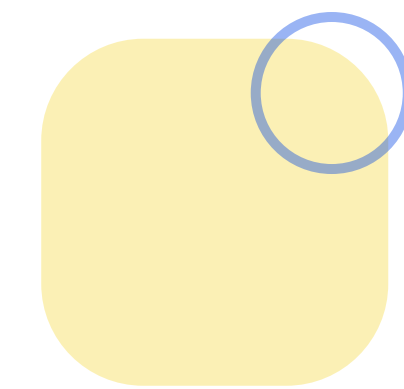
6 The Impact of Digital Financial Technology on Accelerating Financial Inclusion in Developing Economies

Procedia Computer Science, 2023

Arnesh Telukdarie, Aviksha Mungar

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Years

2026 (619)

2025 (1,992)

2024 (1,415)

Show more

Article type

Review articles (3,114)

Research articles (3,274)

Encyclopedia (57)

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Compare insights

Research article

1 Corporate climate change disclosure and global economic perspectives: A bibliometric mapping

Global Economics Research, June 2026

Muhammad Fadhly Rizky Octavio, Doddy Setiawan

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2 Climate change and air transport: a bibliometric analysis to guide adaptation policy

Transportation Research Interdisciplinary Perspectives, November 2025

Mark E. Holmes, Aletha Ward, ... Isabella Ward

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Find articles with these terms

"artificial intelligence" AND bibliometric



 Advanced search

8,546 results

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Refine by:

Subscribed journals

Years

2026 (922)

2025 (2,710)

2024 (1,785)

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Article type 

Review articles (3,241)

Research articles (4,184)

Encyclopedia (61)

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"artificial intelligence" AND bibliometric

[Compare insights](#) 

Research article  Full text access


¹ **The evolution of publications on applications of artificial intelligence to nursing care: A bibliometric and visual map**

Nursing Outlook, January–February 2026

Abdulsamed Kaya, Güzel Nur Yildiz

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 Related Papers

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Review article  Open access

² **Early implications for solid organ transplantation with the use of artificial intelligence from a bibliometric perspective**

Mayo Clinic Proceedings: Digital Health, Available online 30 January 2026

Aliza Naomi Márquez Cabral, Carlos Alejandro Martínez-Zamora, ... Alejandro Rossano García

 View PDF [Abstract](#)  [Figures](#)  [Export](#) 

 Related Papers

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Apa yang perlu disiapkan?



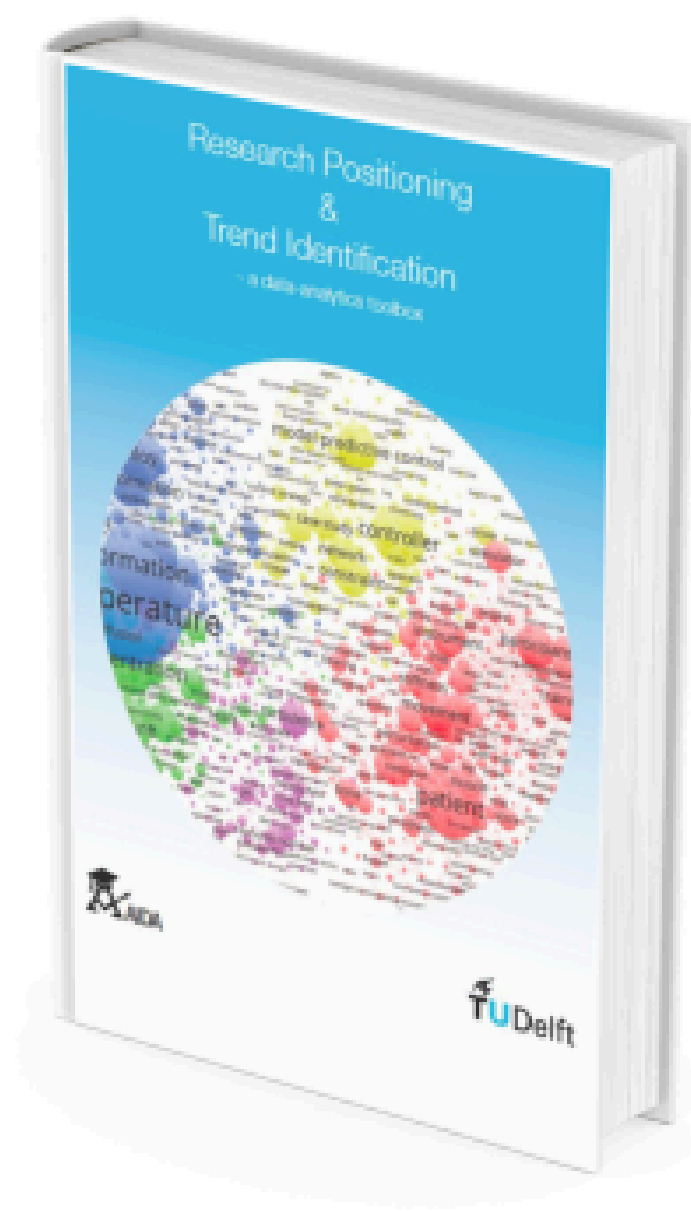
Pertanyaan apa saja yg dapat dijawab dgn bibliometrik?

- Q1. What is the **state of the art** in my research area?
- Q2. What is the **position of my work** in relation to the existing work?
- Q3. How can I extract **emerging trends** in a research area?
- Q4. How to get a **quick overview** of what is happening in my field?
- Q5. Which researchers are my **potential collaborators**?
- Q6. Who are the **co-authors** of a researcher whom I know?
- Q7. What are the frequently **investigated topics** by an arbitrary group of authors?
- Q8. What are the **scientific origins** of my research field?
- Q9. What **keywords** are relevant to my research?
- Q10. Which **papers** should I read to learn a specific topic?
- Q11. Which **journals** are suitable for my research to be published in?

Ranjbar-Sahraei, B., & Negenborn, R. (2017). Research positioning & trend identification: a data-analytics toolbox. (Version 2.2 ed.)
Delft University of Technology. https://pure.tudelft.nl/ws/portalfiles/portal/40154954/AIDA_Booklet_V2.2.pdf



Apa saja Research Questions yang sering muncul?



#prospective co-authors

Which nations, universities, and authors have been actively engaged in X research?

#relevant journals

Which journals are cited most frequently in X and which form the research arena of the field?

#hot topics and trends

What themes and trends involving X merit inquiry?



Ruang lingkup: rentang waktu, regional/global

Jalipa et al. *BMC Neurology* (2021) 21:11
<https://doi.org/10.1186/s12883-021-02042-w>

BMC Neurology

RESEARCH ARTICLE Open Access

Bibliometric analysis of bacterial central nervous system infection research in Southeast Asia

Francis Gerwin U. Jalipa¹, Marie Charmaine C. Sy¹, Adrian L. Espiritu^{1,2} and R...

[Check for updates](#)

Abstract
Background: The status of research and scientific outputs with regards to bacterial infection in southeast Asia (SEA) is unknown. This study aimed to analyze and com...

Journal of Pain Research Dovepress
open access to scientific and medical research

ORIGINAL RESEARCH

A Bibliometric Analysis of the Top 100 Cited Articles in Anterior Cervical Discectomy and Fusion

Xun Wang¹, Yanze Lin¹, Qiongai Wang¹, Lijing Gao¹, Fubo Feng^{1,2}

¹Department of Orthopedics, Zhejiang Provincial People's Hospital (Affiliated People's Hospital, Hangzhou Medical College), Hangzhou, Zhejiang, 310014, People's Republic of China

Correspondence: Fubo Feng, Center for Plastic & Reconstructive Surgery, Department of Orthopedics, Zhejiang Provincial People's Hospital (Affiliated People's Hospital, Hangzhou Medical College), Hangzhou, Zhejiang, 310014, People's Republic of China, Email: fengfubo@zjhu.edu.cn

Anterior cervical discectomy and fusion (ACDF) is one of the most routine spinal procedures in spine surgery. However, there is no relevant analysis of the top 100 cited articles in ACDF to identify the research trends. We collected database with restrictions and identified the top 100 cited articles. All studies were published within 12 countries, with the United States being the top producer, followed by "spine", "anterior cervical discectomy and fusion", "interbody fusion", and "minimally invasive". The results of this study will provide a reference for clinicians and scholars to research the development trend of this field. **Keywords:** ACDF, citation analysis, bibliometrics, Web of Science, VOSviewer

INTERNATIONAL TRANSACTIONS IN OPERATIONAL RESEARCH IOPORS

WILEY

Int. Trans. in Op. Res. 30(2023) 2709–2728
 DOI: 10.1111/itor.12021

Thirty years of *International Transactions in Operational Research*: past, present, and future direction

Ikpe Justice Akpan^{*}

Department of Management & Information Systems, Kent State University, Tuscarawas Campus, JRR, University Dr. NE, New Philadelphia, OH 44663, USA
 E-mail: ikpanj@kent.edu / I.Akpan/

Received 10 May 2023; received in revised form 11 May 2023; accepted 11 May 2023

Turk Thorax J 2022; 23(2): 246-256 DOI: 10.5152/turkthoraxj.2022.21264

Original Article

A Scopus-Based Bibliometric Analysis of Global Tuberculosis Publications: 1849-2020

Yagmur Demoglu, Mustafa Y. Usta, Pinar Dik...

Department of Medical Microbiology, Faculty of Medicine, Istanbul University, Istanbul, Turkey
 *Mehmet Akif Ersoy Vocational School of Health Services, Çukurova University, Sarıçam-Antalya/Turkey

Cite this article as: Demoglu, Mustafa Y, Usta P. A scopus-based bibliometric analysis of global tuberculosis publications: 1849-2020. *Turk Thorax J*. 2022;23(2):246-256.

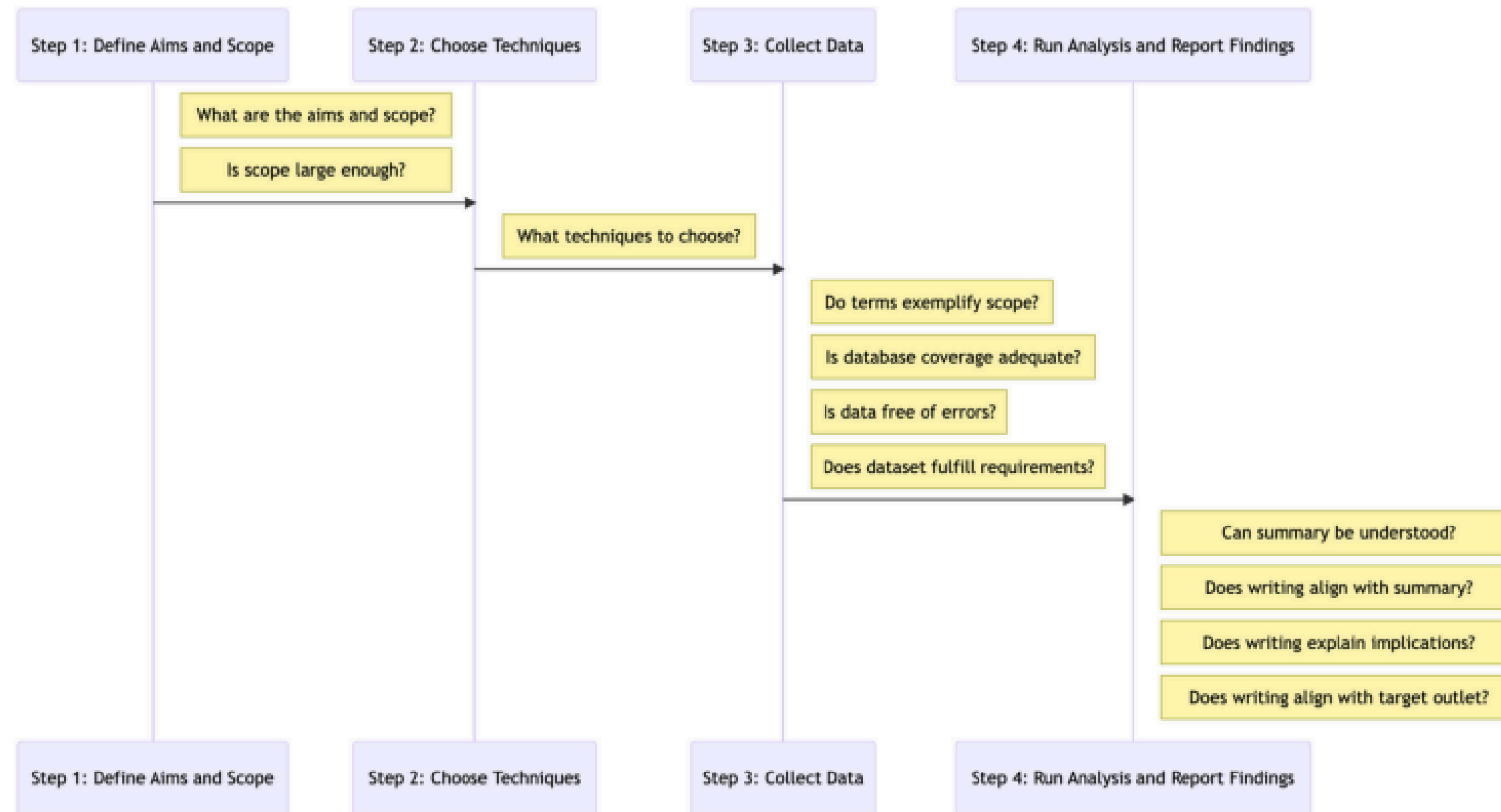
Abstract
OBJECTIVE: Tuberculosis continues to become a serious public health concern in many countries despite efforts to prevent and control global tuberculosis infections.
MATERIAL AND METHODS: This study aims to present bibliometric analysis of the period 1849-2020 tuberculosis publications that are published by global researchers and indexed in the Scopus database. Although many studies have been carried out on tuberculosis, there is no study that performs bibliometric analysis of publications in this field in such a wide range of dates. Tuberculosis publications searched in the Scopus database between the period 1849-2020 were analyzed. Data on tuberculosis were presented by analyzing the number of publications, the language of publication, the countries that contribute the most to the literature, the most active institutions, the most cited publications, active authors and active journals, using appropriate quantitative and qualitative bibliometric indicators.
RESULTS: 263,214 articles, published between 1849 and 2020 and searched in the Scopus database, were evaluated. The most articles (68,044) were published in 2020. A total of 112,121 articles were published between 2001 and 2020. The most used publication language in the articles was English (62.48%), followed by Russian (7.25%). The country that contributed the most to the literature was the United States (13.81%), followed by India (7.18%). 3.8% of the articles were published in the journal "Tuberculosis and Lung Diseases".
CONCLUSION: The results of the present bibliometric study are expected to shed light on the planning of future tuberculosis studies and the development of health policies toward tuberculosis. Research output is low in some countries, which should make larger investments in international and national collaborative research projects in the field of tuberculosis. If doing so, many countries of limited source will benefit from research that offer novel diagnostic and screening technology of tuberculosis.
KEYWORDS: Bibliometric, database, publications, tuberculosis, mycobacterium

Anterior access to the cervical is very typical.¹⁻³ Since the introduction of CDA in the 1950s, it has been commonly used for treating cervical spine diseases and has become one of the most common surgical procedures in spine disease and the implantation of autogenous or allograft implants to achieve direct anterior decompression.⁴ Indications for ACDF include disc herniation, and partial ossification of the posterior longitudinal ligament (PLL) (CDA), endoscopic spine surgery (ESS), and other procedures have been used for spine disease. CDA preserves the operating segment's range of motion (ROM).⁵ ESS is considered a safe and effective alternative for damage and fewer complications.⁶ However, whether CDA and ESS will be replaced by ACDF procedure worldwide and have published a large number of articles on the rise of surgical methods such as CDA and cervical endoscopic spine surgery and rehabilitation medicine, the development trend of ACDF

Metode dan Analisis Bibliometrik

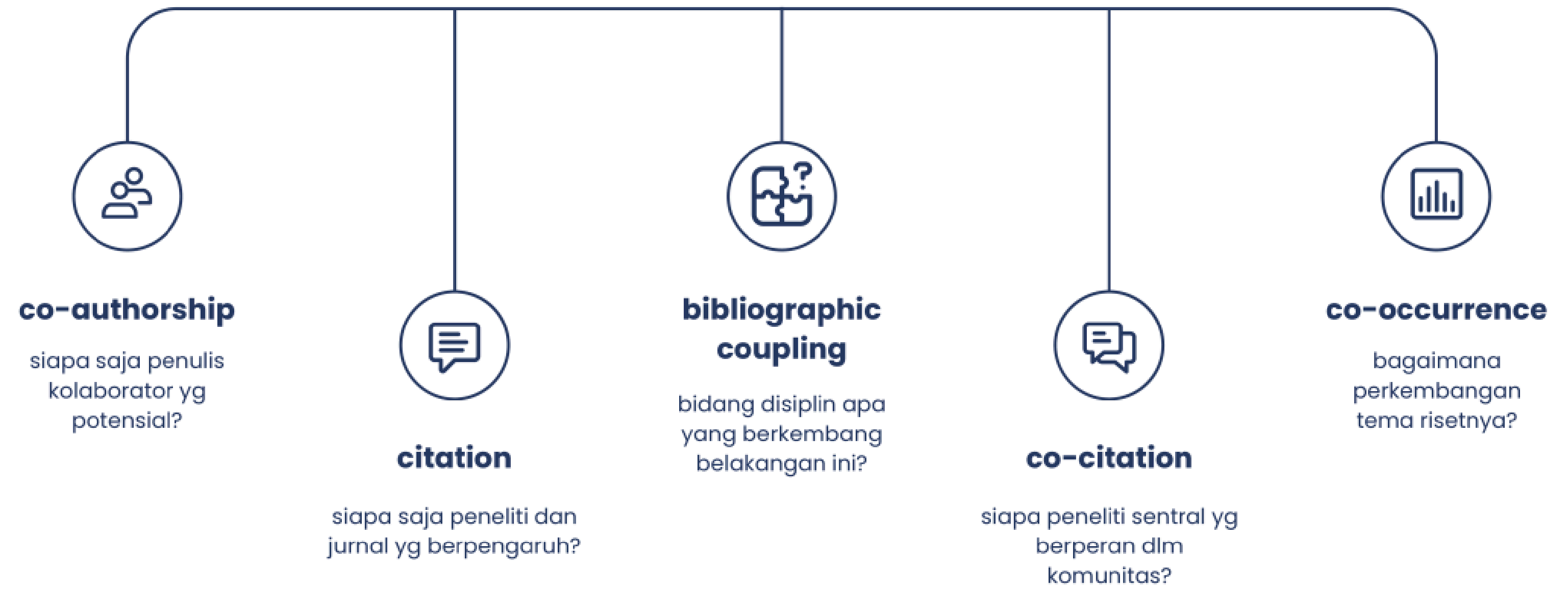


Bgmn langkah-langkah analisis bibliometrik?

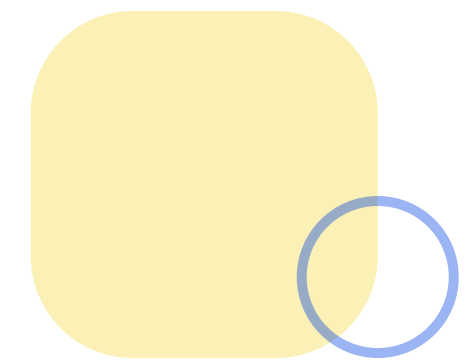


Donthu, N., S. Kumar, D. Mukherjee, N. Pandey, and W. M. Lim. 2021. "How to Conduct a Bibliometric Analysis: An Overview and Guidelines." *Journal of Business Research* 133:285–96. doi: 10.1016/j.jbusres.2021.04.070

Apa saja teknik analisis bibliometrik?



Apa saja data bibliografi yg dibutuhkan?



co-authorship

author affiliation
(institution and
country)



citation

author name,
citation, title,
journal, DOI,
reference



bibliographic coupling

author name,
title, journals, DOI,
references



co-citation

references



co-occurrence

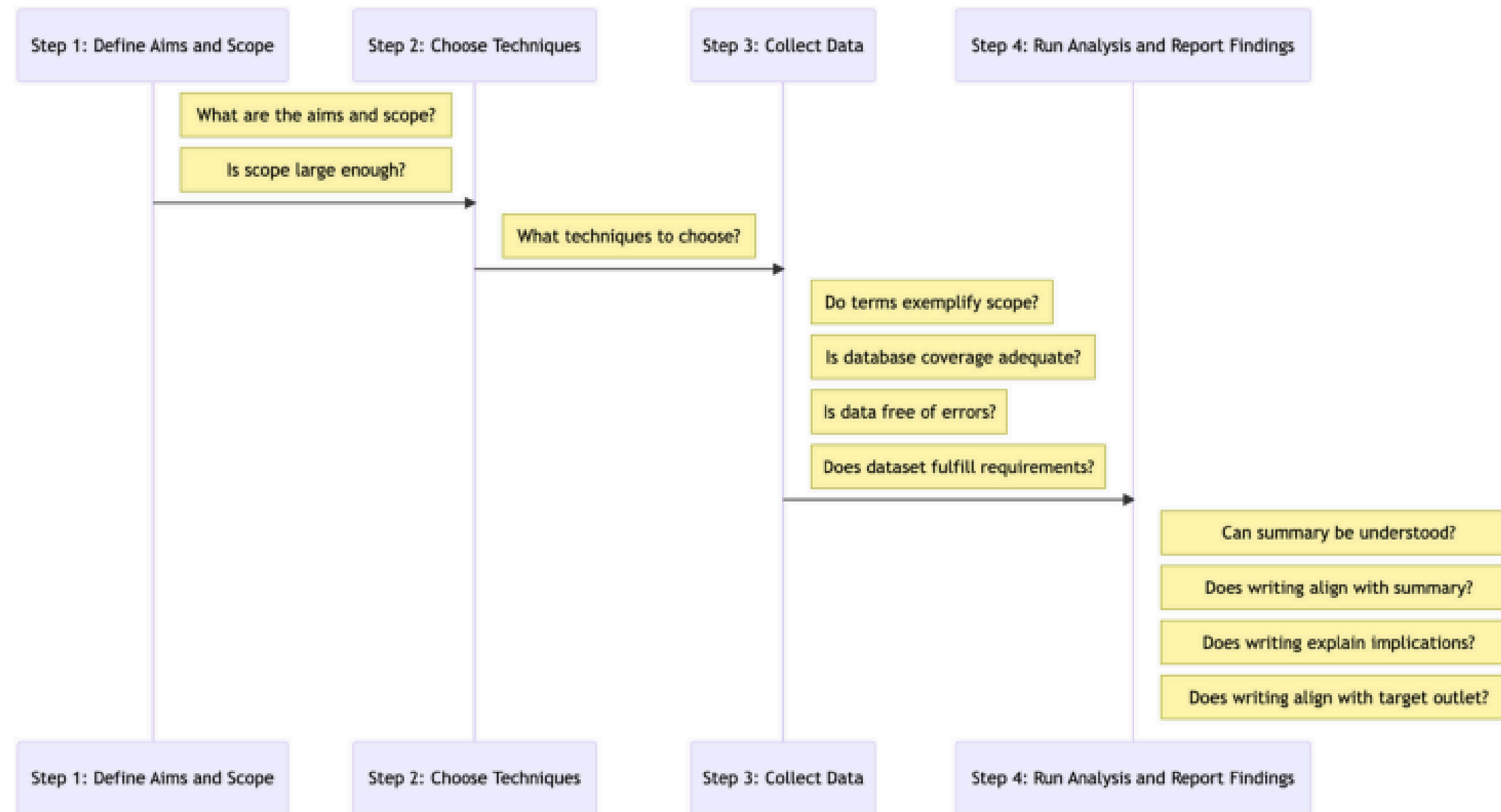
title, abstract,
keywords, index



Teknik Pengumpulan Data



Bgmn langkah-langkah analisis bibliometrik?



Donthu, N., S. Kumar, D. Mukherjee, N. Pandey, and W. M. Lim. 2021. "How to Conduct a Bibliometric Analysis: An Overview and Guidelines." *Journal of Business Research* 133:285–96. doi: 10.1016/j.jbusres.2021.04.070

Data apa yang dibutuhkan untuk analisis bibliometrik?



page number

title ← **ANALISIS BIBLIOMETRIK BERKALA ILMIAH NAMES: JOURNAL OF ONOMASTICS DAN PELUANG RISET ONOMASTIK DI INDONESIA**

author affiliation ← **Eric Kunto Aribowo**
 Prodi Ilmu-Ilmu Humaniora, FIB, Universitas Gadjah Mada
 Jalan Humaniora, Catur Tunggal, Depok, Sleman, Yogyakarta, Indonesia
 Telepon (0274) 513096, Faksimile (0274) 513096
 Pos-el: eric.kunto.a@mail.ugm.ac.id

DOI ← Permalink/DOI: 10.29255/aksara.v3i1i1.373.85-105

abstract ← **Abstrak**
 Kajian onomastik sering dianggap sebagai topik yang gersang dan terbatas pada persoalan nama diri dan nama tempat (toponim). Permasalahan penelitian ini adalah tema riset apa saja yang telah diteliti pada kajian onomastik, tren risetnya, penulis dan afiliasi produktif, serta peluang riset onomastik yang dapat dilakukan di Indonesia. Penelitian ini bertujuan untuk memetakan gambaran umum mengenai tema-tema riset onomastik dimanfaatkan analisis bibliometrik untuk menilai performa dari artikel-artikel ilmiah sekaligus menapakan peluang riset onomastik di Indonesia. Data riset ini merupakan metadata yang diekstrak dari basis data Scopus dengan sumber *Names: Journal of Onomastics* dari tahun 1933—2018. Semua informasi diekspor ke format CSV untuk keperluan analisis data, khususnya *word co-occurrence network* yang dihasilkan menggunakan VOSviewer. Jumlah metadata dokumen yang berhasil dikumpulkan sebanyak 1.235 artikel. Hasil analisis menunjukkan investigasi terkait nama diri (terutama *surname*) dan toponim menjadi topik dominan dalam onomastik, sedangkan riset tentang nama hewan, penamaan dan perkawinan, jenis kelamin dan penamaan, nama makanan, dan nama pada karya sastra menjadi tren riset menjelang tahun 2018. Riset onomastik di Indonesia memiliki potensi dan peluang yang luas karena beberapa sumber data elektronik dapat diakses dengan mudah. Dengan melibatkan kolaborasi dari berbagai disiplin ilmu, onomastik menjadi salah satu topik yang menjanjikan untuk diteliti.

keywords ← **Kata kunci:** bibliometrik, onomastik, tren riset, pemetaan riset, VOSviewer

year, journal, vol, issue ←
 ISSN 0854-3283 (Print), ISSN 2580-0353 (Online) | **aksara**, Vol. 31, No. 1, Juni 2019 | 85

Analisis Bibliometrik Berkala Ilmiah *Names: Journal of Onomastics*... (Eric Kunto Aribowo)

Halaman 85 – 105

keterkaitan antara penamaan dan perkawinan, jenis kelamin dan penamaan, nama makanan, dan nama pada karya sastra khususnya puisi. Penelitian ini juga telah menawarkan proposal mengenai potensi dan peluang riset onomastik yang dapat dilakukan, termasuk beberapa sumber data elektronik yang dapat diakses. Kajian onomastik yang kompleks juga membuktikan perlunya kolaborasi riset dari berbagai multidisiplin ilmu, tidak hanya terbatas pada ilmu linguistik atau bahasa semata.

Riset ini masih terbatas pada (meta)data yang diambil dari satu berkala ilmiah dan satu basis data serta memanfaatkan VOSviewer untuk membuat visualisasi pemetaan dan pengklasteran topik-topik riset. Riset bibliometrik berikutnya dapat menggunakan basis data yang lebih besar atau dapat memanfaatkan basis data yang lain seperti: Web of Science®, Crossref®, dan/atau Dimensions® dengan memanfaatkan sumber dari berkala ilmiah yang lebih beragam. Perangkat lunak lain yang juga dapat dimanfaatkan dan digunakan secara gratis seperti *Publib or Perib*, *Pajek*, *Gephi*, atau *CiteNetExplorer* dapat dijadikan perangkat lunak alternatif untuk mengolah metadata dalam rangka menganalisis performa suatu jurnal, penulis, atau bahkan afiliasi.

Penelitian ini merupakan bagian dari telaah literatur dari disertasi mengenai tata nama masyarakat keturunan Arab di Indonesia di bawah bimbingan Syamsul Hadi dan Amir Ma'raf pada program doktor Ilmu-Ilmu Humaniora, Fakultas Ilmu Budaya, Universitas Gadjah Mada. Namun demikian, keterbatasan yang ada pada artikel ini menjadi tanggung jawab penulis tanpa bermaksud menyangsikan profesionalitas kedua promotor.

Beberapa gagasan dalam tulisan ini, terutama terkait pencarian sumber data onomastik juga merupakan hasil diskusi singkat dengan Rasyid Kurniawan (staf Kemenkumham

Yogyakarta), Sigit Sabiyantoro (Kepala Seksi Integrasi Pengolahan dan Diseminasi Statistik, BPS Surakarta), dan Tri Wibowo (staf Bagian Data dan Statistik, Disdikcapil Surakarta). Penulis ucapkan terima kasih kepada mereka yang telah memberikan gambaran luas mengenai manajemen data di instansi masing-masing. Penulis juga mengucapkan terima kasih kepada Universitas Gadjah Mada yang telah memberikan akses ke basis data Scopus dalam rangka pengambilan (meta)data. Selain itu, penulis juga mengucapkan terima kasih kepada para mitra bestari yang telah memberikan komentar konstruktif terkait substansi artikel ini.

DAFTAR PUSTAKA

Algeo, J., & Algeo, K. (2000). *Onomastics as an Interdisciplinary Study*. *Names*, 48(3/4), 265–274. <https://doi.org/10.1179/nam.2000.48.3-4.265>

Anderson, J.M. (2007). *The Grammar of Names*. Oxford: Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199297412.001.0001>

Aribowo, E.K. (2015a). *Aspek-Aspek Linguistik Penanda Identitas Religi: Selayang Pandang Masyarakat Tatar Jawa Muslim Dalam Seminar Nasional dan Launching ADORSI* (hal. 48–53). Diambil dari <http://adorsi.org/wp-content/uploads/2015/07/Eric-Kunto-A.pdf>

Aribowo, E.K. (2015b). *Selamatkan Perkawinanmu, Selamatkan Bahasamu: Catatan mengenai Dampak Positif Perkawinan Endogami terhadap Bahasa Masyarakat Keturunan Arab di Pasarkliwon Surakarta*. Dalam *Language Maintenance and Shift P* (hal. 271–275). Diambil dari <http://eprints.undip.ac.id/55372/>

Aribowo, E.K. (2017). *Linking Arabic, Islam,*

Dari mana data bibliografi didapatkan?



Analisis bibliometrik yg didukung oleh bbrp database



| Database | Biaya | Cakupan | Maksimal unduh data | Analisis Bibliometrik yang Didukung | | | | |
|-----------------------|----------|---------------|---------------------|-------------------------------------|-------------|------------------------|---------------|---------------|
| | | | | citation | co-citation | bibliographic coupling | co-occurrence | co-authorship |
| Lens | Gratis | Multidisiplin | 50.000 | ✓ | ✗ | ✓ | ✓ | ✓ |
| Dimensions | Gratis | Multidisiplin | 2.500 | ✓ | ✓ | ✓ | ✗ | ✓ |
| Scopus | Berbayar | Multidisiplin | 20.000 | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scopus via PoP | Gratis | Multidisiplin | 200 | ✗ | ✗ | ✗ | ✗ | ✓ |



Pastikan database yang Anda pilih dapat memfasilitasi teknis analisis untuk tujuan penelitian yang ditentukan!

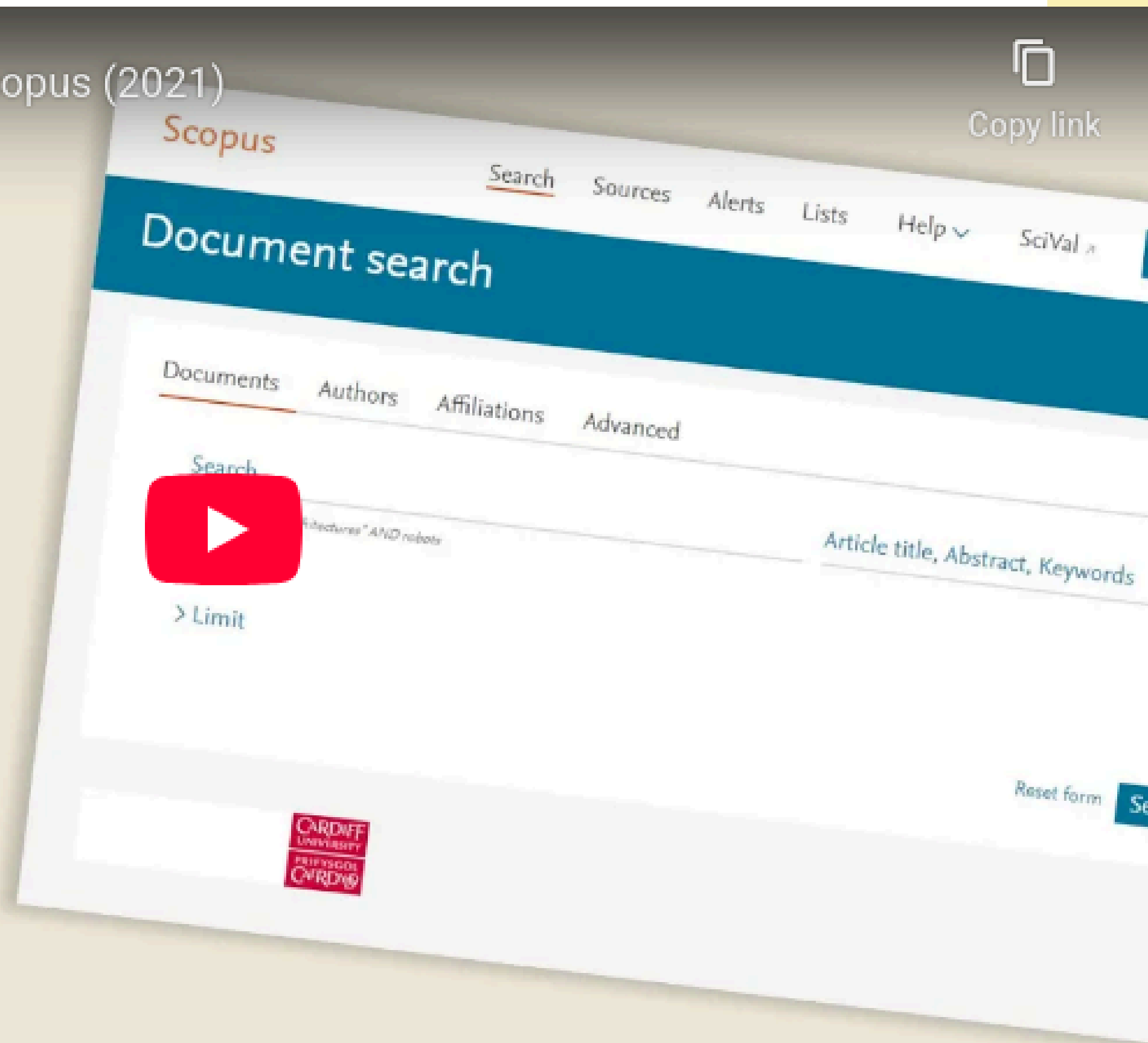
Contoh pencarian di Scopus

Searching with keywords in Scopus (2021)



Library Service
Gwasanaeth Llyfrgell
y Brifysgol

Searching with keywords in Scopus



Watch on YouTube

Contoh pencarian di Scopus

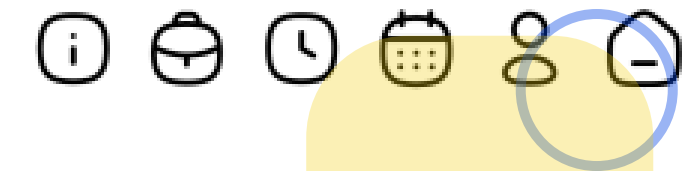


The screenshot displays the Scopus search interface. On the left, the 'Advanced search' page shows the query: `TITLE-ABS-KEY("fraud detection" OR "financial fraud" OR "forensic accounting")`. Below the query, there are options for 'Outline query', 'Add Author name / Affiliation', and 'Clear form'. A list of example queries is provided, including `ALL("Cognitive architectures") AND AUTHOR-NAME(smith)`.

The main window shows the search results for the query. The title is '6,114 document results'. Below the title, there are options to 'Edit', 'Save', and 'Set alert'. The search results are displayed in a table with columns for 'Document title', 'Authors', 'Year', 'Source', and 'Cited by'. The first result is:

| Document title | Authors | Year | Source | Cited by |
|---|--|------|---|----------|
| <input type="checkbox"/> 1 The role of technology for activating the use forensic accounting in financial fraud detection | Alrawashdeh, B., KameAlfaneh, M.K., Alfawareh, N., Musatat, A. | 2021 | Academy of Strategic Management Journal 20(SpecialIssue2), pp. 1-10 | 0 |
| <input type="checkbox"/> 2 Research about extracting and analyzing accounting data of | Kimin, S., Jaemin, C., Yong-seok, C., | 2009 | 2009 IEEE International Conference on Intelligence and Security Informatics, ISI 2009 | 7 |

Ekspor metadata bibliografi dari Scopus



The screenshot shows the Scopus export interface. The main window is titled "Export 41,960 documents to CSV". It includes a note: "You can export up to 20,000 documents in CSV format." Below this, there are radio buttons for "All documents on this page" and "Documents". The "Documents" option is selected, with input fields for "1" and "41960". A red circle highlights the "20,000 documents" limit, and a yellow callout box with a red arrow points to it, containing the text: "di versi terbaru bisa ekspor hingga 20.000 dok." Below the document selection, there are sections for "What information do you want to export?" with various checkboxes for citation, bibliographical, abstract, and other information. At the bottom, there are options for "Select all information" and "Truncate to optimize for Excel".

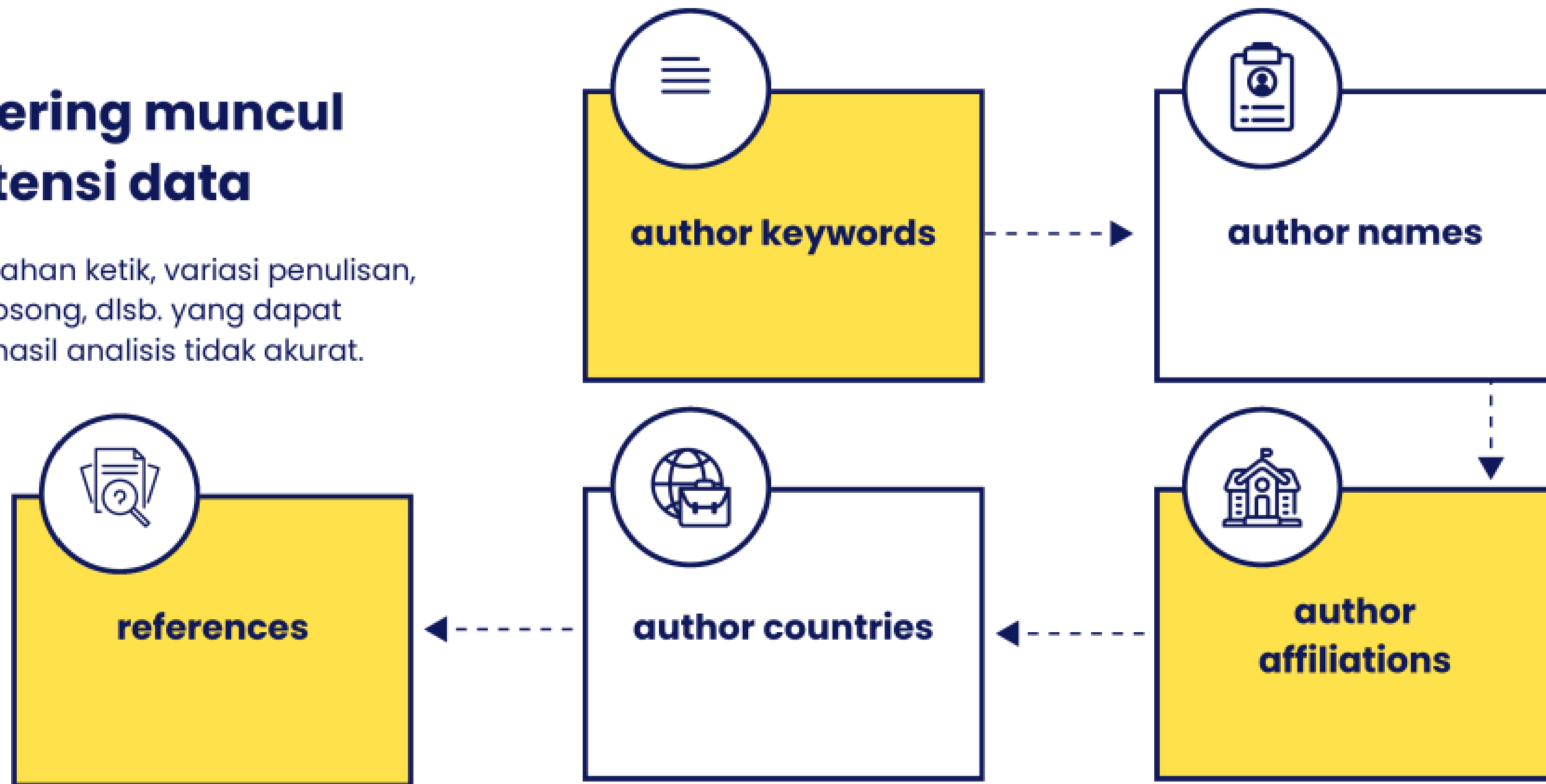
The "Create Map" dialog box is overlaid on the right. It is titled "Create Map" and "Choose type of analysis and counting method". It has two columns of options: "Type of analysis" and "Unit of analysis". Under "Type of analysis", "Co-authorship" is selected. Under "Unit of analysis", "Authors" is selected. There are also options for "Counting method" (Full counting is selected) and "VOSviewer thesaurus file (optional)". At the bottom, there is a checkbox for "Ignore documents with a large number of authors" and a dropdown menu for "Maximum number of authors per document" set to 25.

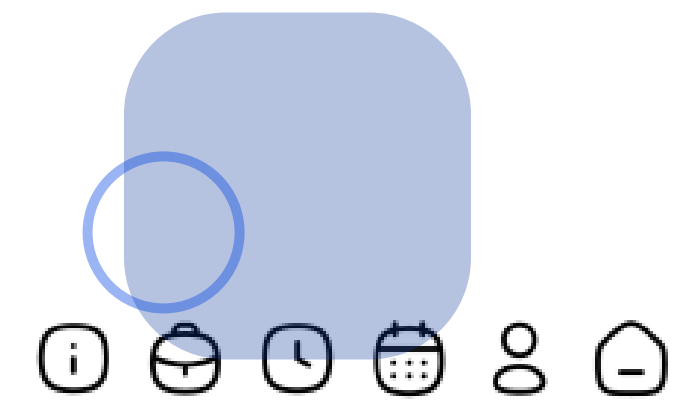
Data Cleaning

Mengapa data perlu dicleaning sblm dianalisis?

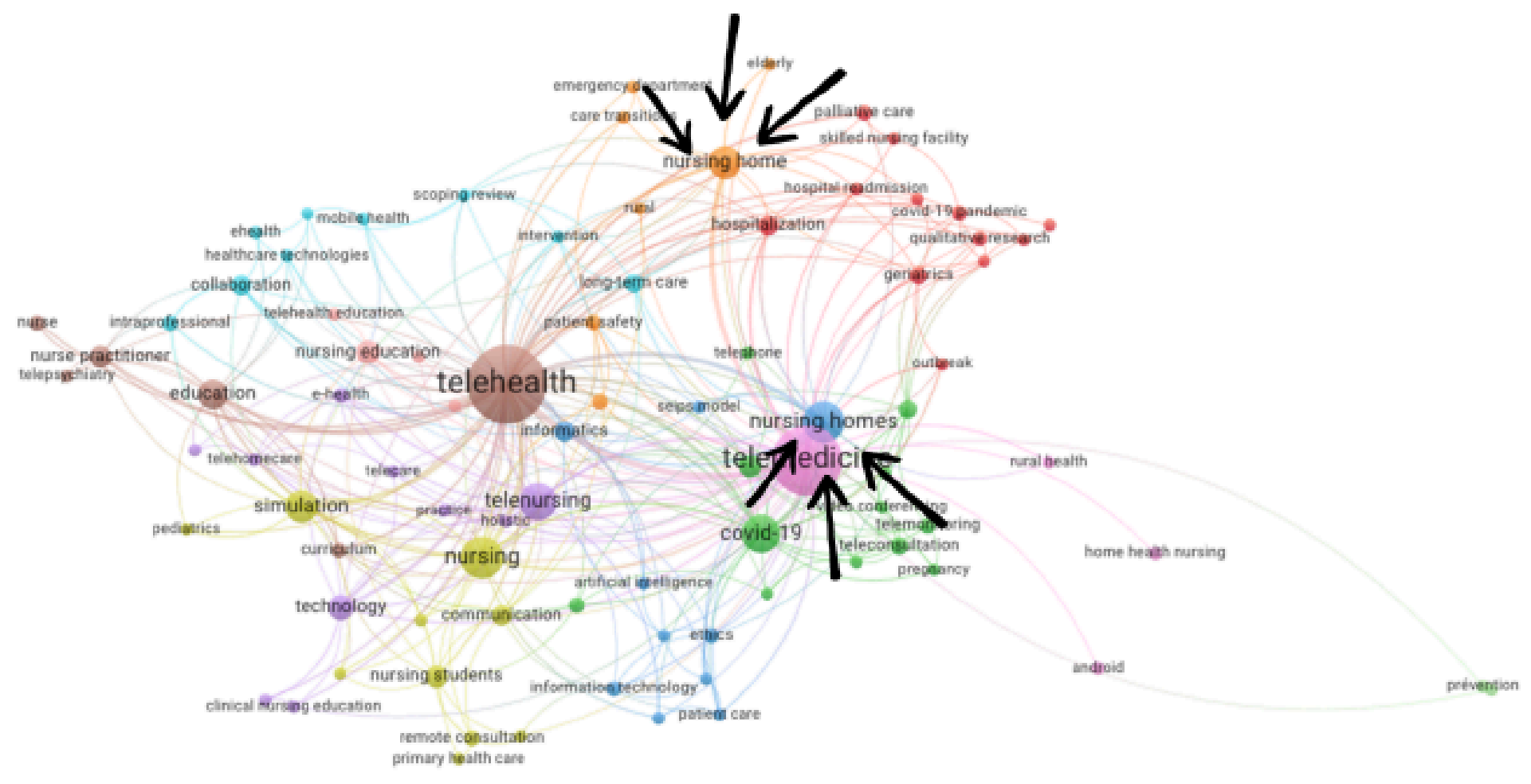
karena sering muncul inkonsistensi data

mulai dari kesalahan ketik, variasi penulisan, sinonim, data kosong, dlsb. yang dapat menyebabkan hasil analisis tidak akurat.





Bukti bahwa data perlu dicleaning



VOSviewer

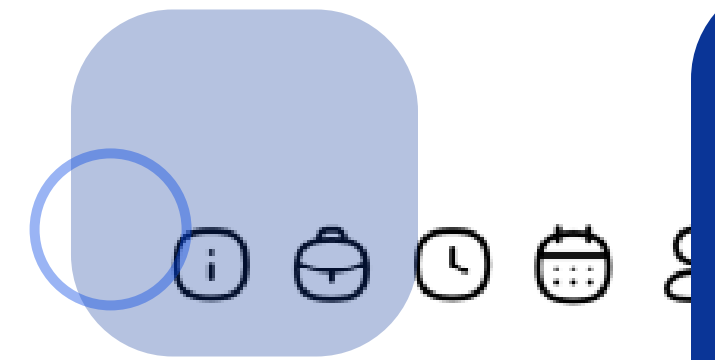
30
12
2

Create Map

Verify selected keywords

| Selected | Keyword | Occurrences | Total link strength |
|-------------------------------------|--------------------|-------------|---------------------|
| <input checked="" type="checkbox"/> | telehealth | 76 | 177 |
| <input checked="" type="checkbox"/> | telemedicine | 61 | 139 |
| <input type="checkbox"/> | nursing | 22 | 49 |
| <input type="checkbox"/> | covid-19 | 18 | 46 |
| <input checked="" type="checkbox"/> | nursing homes | 21 | 44 |
| <input type="checkbox"/> | telenursing | 17 | 41 |
| <input checked="" type="checkbox"/> | nursing home | 13 | 33 |
| <input type="checkbox"/> | simulation | 13 | 33 |
| <input type="checkbox"/> | education | 11 | 28 |
| <input type="checkbox"/> | technology | 8 | 23 |
| <input type="checkbox"/> | informatics | 5 | 18 |
| <input type="checkbox"/> | hospitalization | 5 | 17 |
| <input type="checkbox"/> | nurse practitioner | 6 | 17 |
| <input type="checkbox"/> | nursing care | 6 | 15 |
| <input type="checkbox"/> | nursing education | 7 | 15 |
| <input type="checkbox"/> | long-term care | 4 | 14 |
| <input type="checkbox"/> | nursing students | 6 | 14 |
| <input type="checkbox"/> | collaboration | 5 | 13 |
| <input checked="" type="checkbox"/> | telehealth nursing | 4 | 13 |
| <input type="checkbox"/> | e-health | 3 | 12 |
| <input type="checkbox"/> | geriatrics | 4 | 12 |
| <input type="checkbox"/> | patient safety | 3 | 12 |

Bagaimana proses data cleaning di OpenRefine?



Cluster and edit column "Author Keywords"

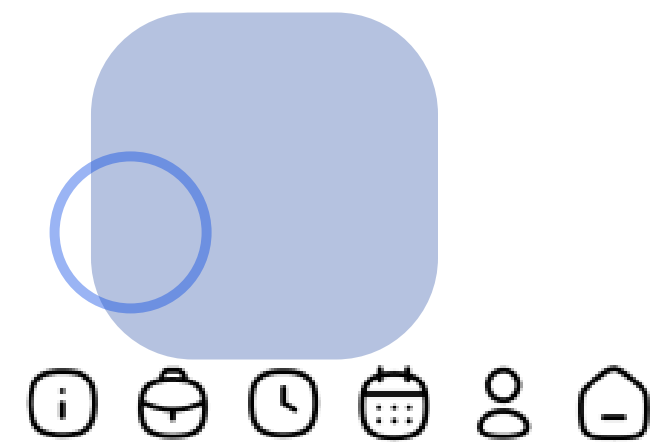
Find groups of different cell values that might be other representations of the same thing. For example, "New York" and "new york" likely refer to the same concept and just differ by capitalization, and "Gödel" and "GodeI" probably refer to the same person. [Find out more...](#)

Method: **Key collision** Keying function: **Fingerprint** 10 clusters found

| Cluster # | Count | Members | Selected | Cluster Name |
|-----------|-------|---|--------------------------|----------------------|
| 1 | 14 | <ul style="list-style-type: none">nursing home (13 rows)home nursing | <input type="checkbox"/> | nursing home |
| 2 | 2 | <ul style="list-style-type: none">tecnologia biomédicatecnologia biomédica | <input type="checkbox"/> | tecnologia biomédica |
| 3 | 5 | <ul style="list-style-type: none">e-health (3 rows)ehealth (2 rows) | <input type="checkbox"/> | e-health |
| 4 | 5 | <ul style="list-style-type: none">teleconsultation (4 rows)téléconsultation | <input type="checkbox"/> | teleconsultation |
| 5 | 8 | <ul style="list-style-type: none">nursing education (7 rows)education, nursing | <input type="checkbox"/> | nursing education |
| 6 | 2 | <ul style="list-style-type: none">pre-licensureprelicensure | <input type="checkbox"/> | pre-licensure |
| 7 | 19 | <ul style="list-style-type: none">telenursing (17 rows)tele-nursing (2 rows) | <input type="checkbox"/> | telenursing |

Buttons: **Select all** **Deselect all** **Export clusters** **Merge selected & re-cluster** **Merge selected & Close** **Close**

telehealth-toolkit.pdf, Available from: . Cited 2022 November 21; Powell, K.R., Alexander, G.L., Consequences of rapid



8 Kesalahan umum analisis bibliometrik

Data screening dan cleaning tidak dilakukan

1

Dataset yg digunakan tidak relevan dengan topik

2

Dataset tidak diharmonisasi (author, keywords, dll.)

3

Jumlah total dokumen sangat rendah (<100)

4

Materials dan Methods tidak transparan

5

Terlalu banyak atribut & analisis yg dilakukan

6

Misinterpretasi temuan dan klaim yg berlebihan

7

Results & Findings kurang diinterpretasi

8

Ahmi, Aidi. 2023. Common errors and mistakes in bibliometrics analysis study. [[link](#)]

Tools Pendukung

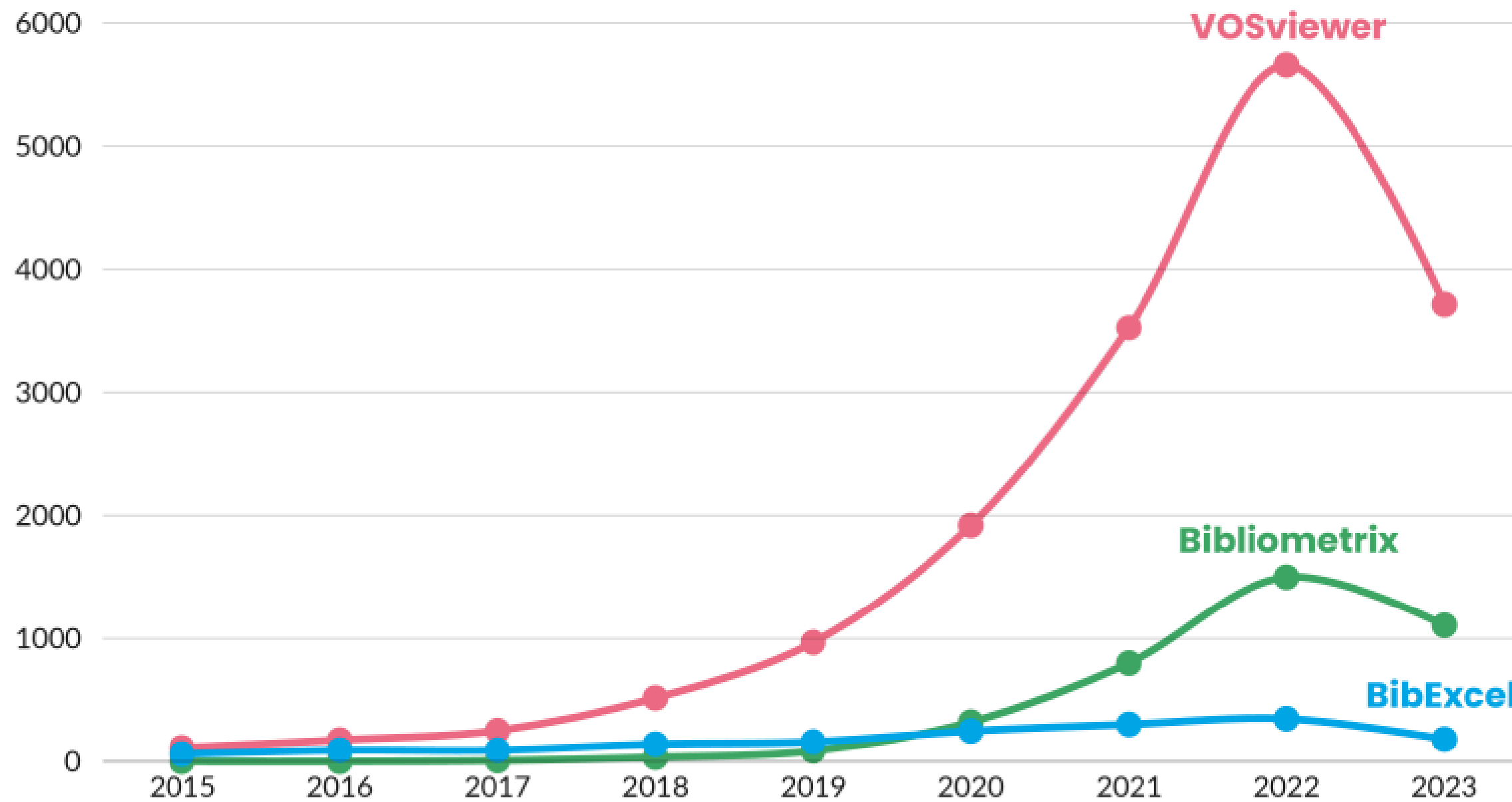


OpenRefine

openrefine.org/download



Apa saja software yg dimanfaatkan untuk analisis bibliometrik?



jumlah publikasi "bibliometrik" berdasarkan software yg digunakan pada artikel riset
Data dari Dimensions, 7 Juli 2023



Software alternatif:
Pajek, Gephi,
CiteSpace,
CitNexExplorer,
Leximancer, SciMat,
Sci2, UCINET, dlsb.



Apa itu VOSviewer?

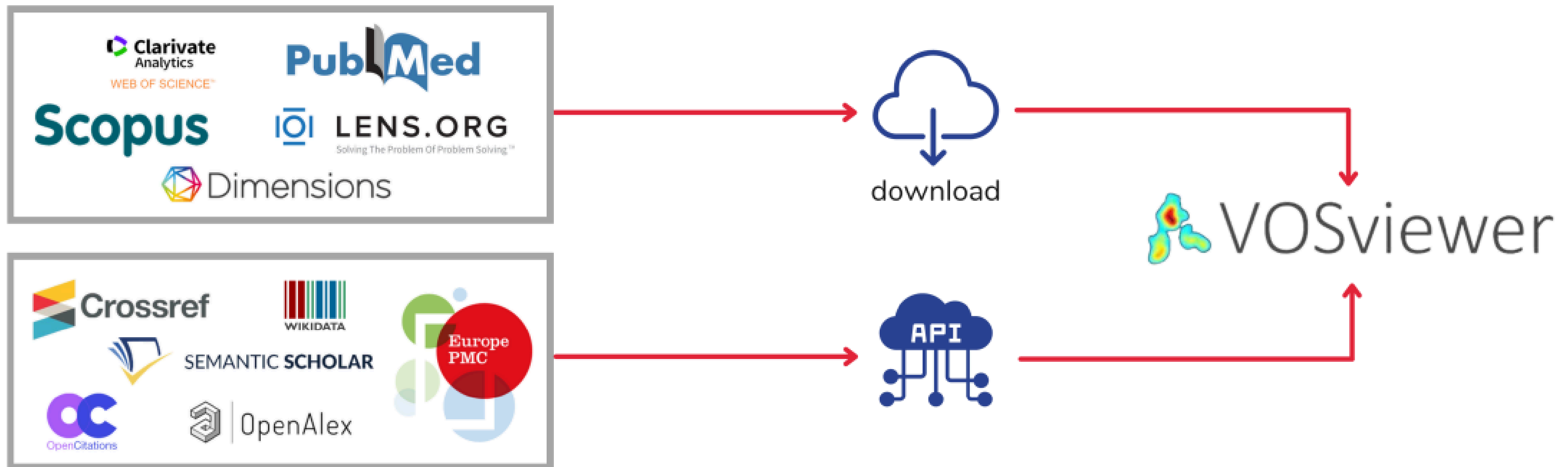


VOSviewer is a software tool for **constructing** and **visualizing** bibliometrics networks.

These networks may for instance include journals, researchers, or individual publications, and they can be constructed based on **citation**, **bibliographic coupling**, **co-citation**, or **co-authorship** relations.

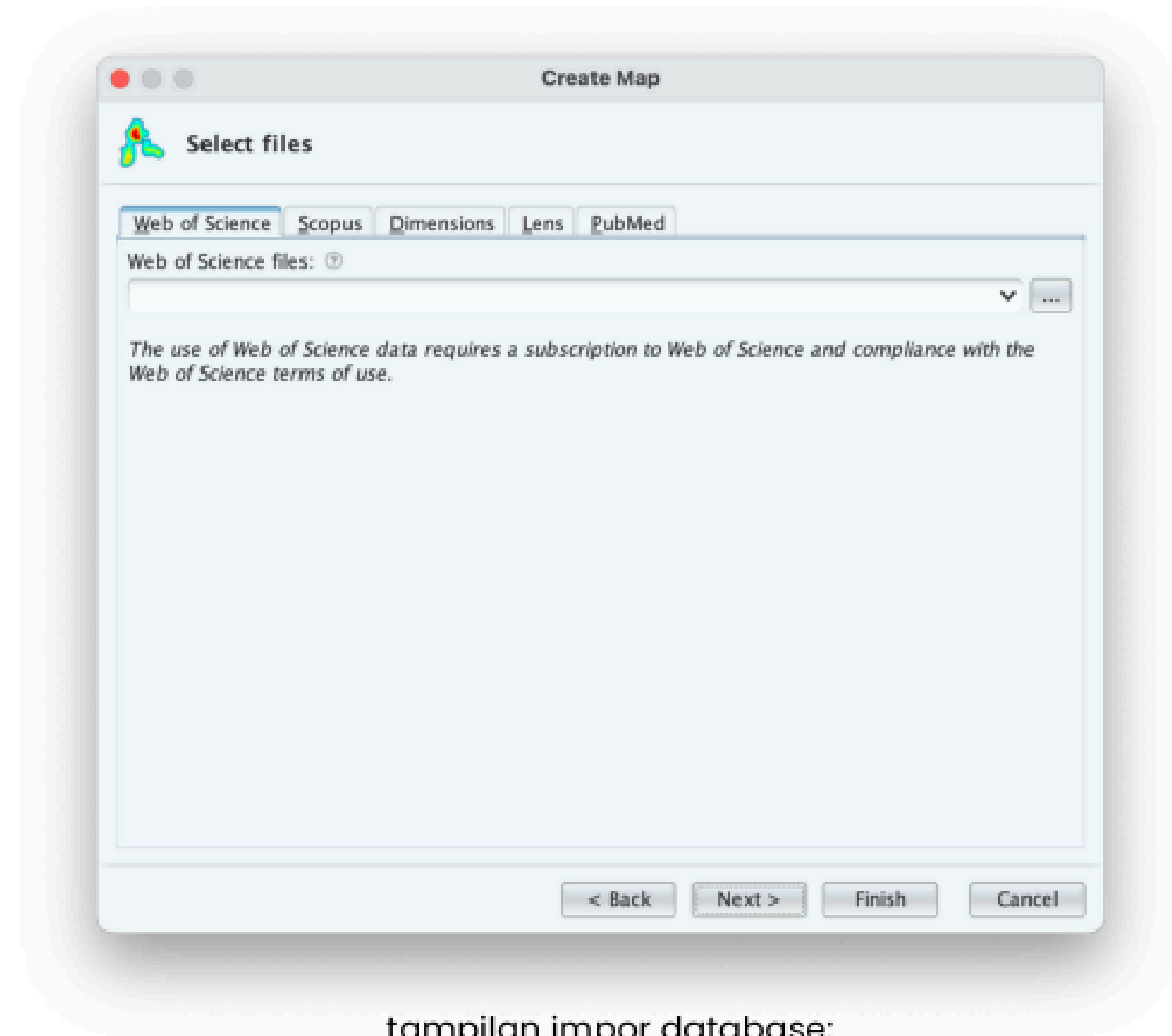
Nees Jan van Eck & Ludo Waltman | CWTS Leiden

Bgmn alur kerja VOSviewer?

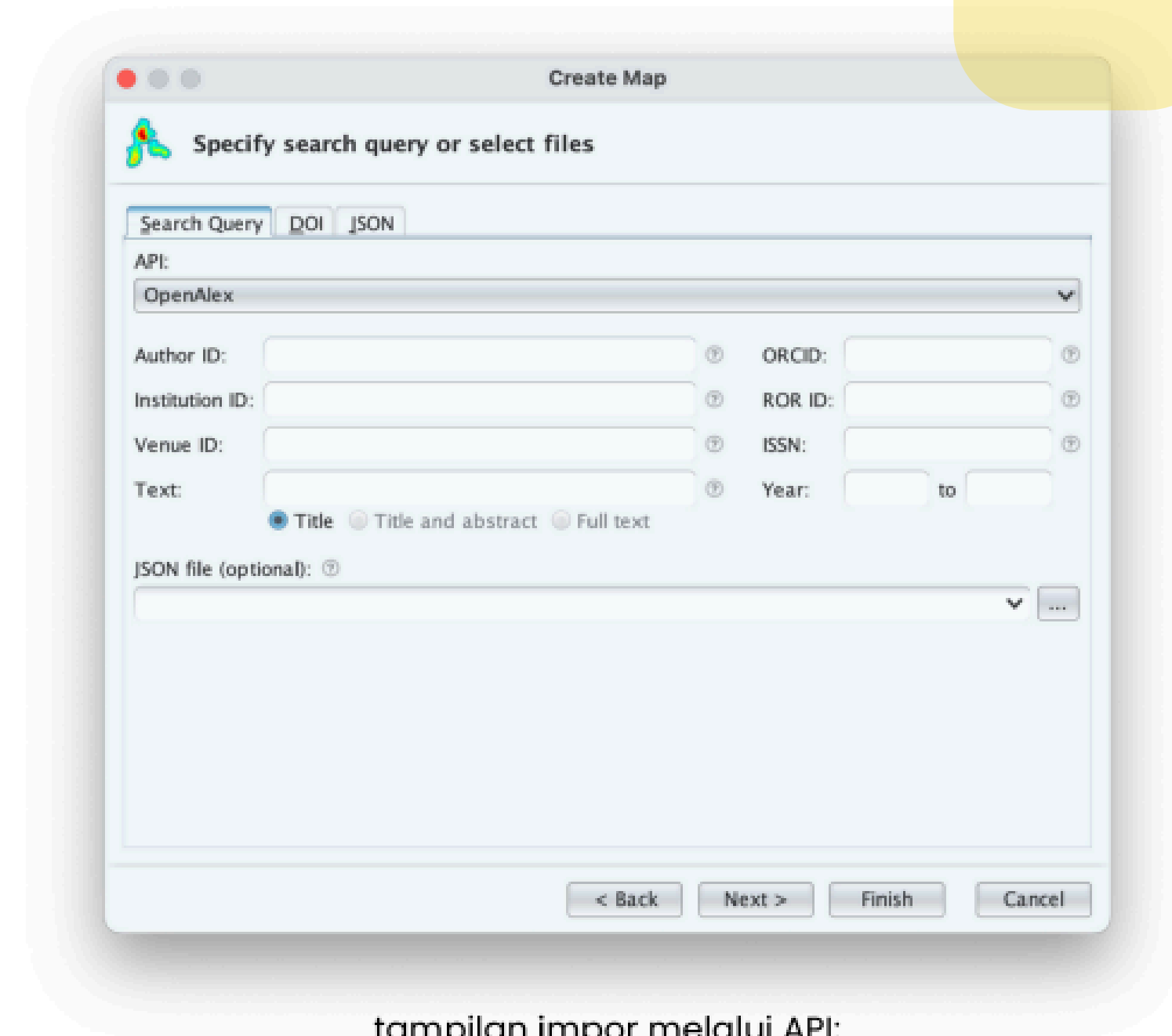


*fail RIS hasil ekspor koleksi referensi dari RMS seperti Zotero juga dapat diimpor ke VOSviewer

Bgmn tampilan di VOSviewer?



tampilan impor database:
WoS, Scopus, Dimensions, Lens, PubMed



tampilan impor melalui API:
Crossref, OpenAlex, Europe PMC

Bgmn strategi meramu search query?



Tentukan tujuan pencarian Anda (author, journal, keywords)

Identifikasi kata-kata kunci yang relevan termasuk sinonimnya

Gunakan operator Boolean: AND, OR, NOT



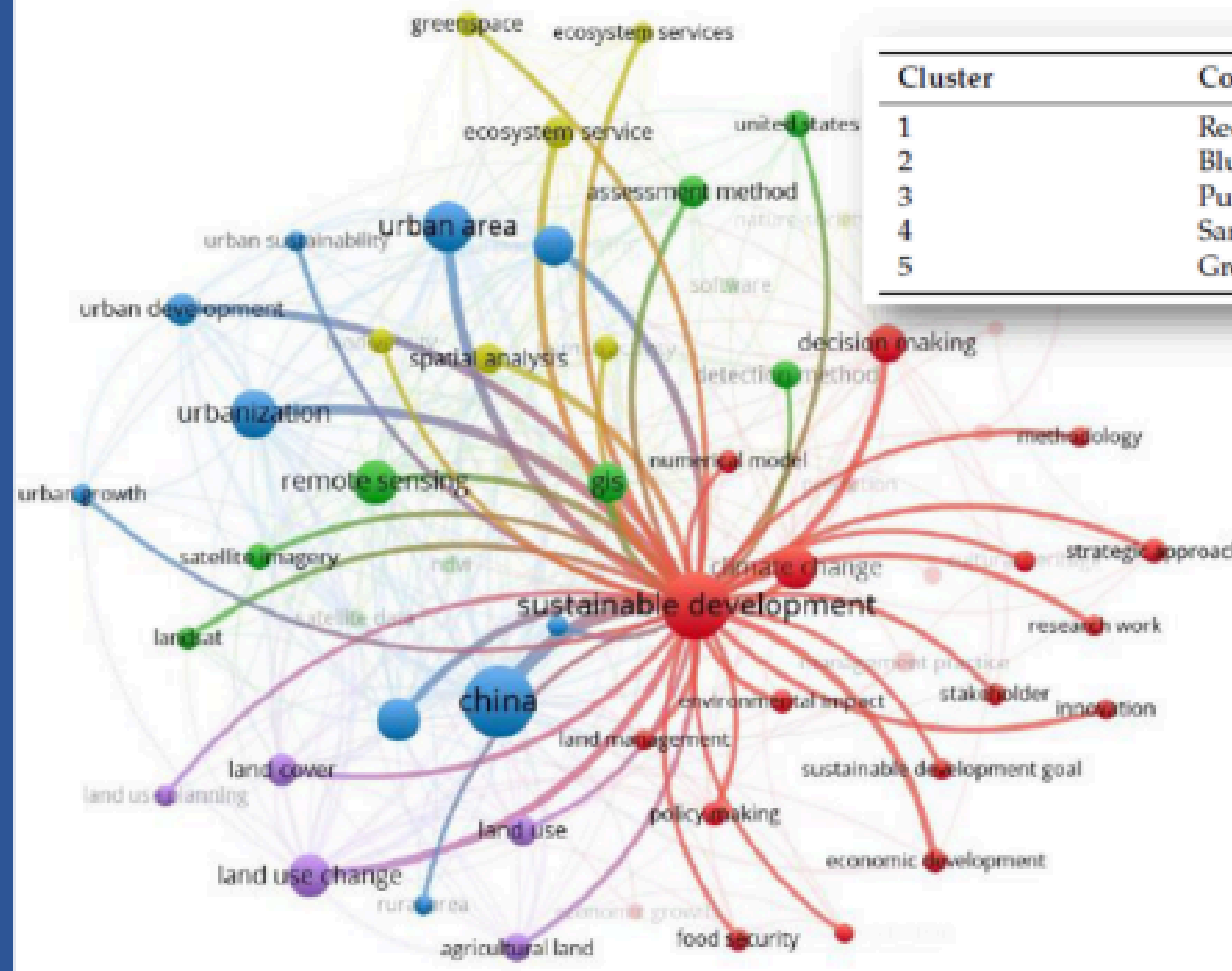
Gunakan tanda kutip untuk frase spesifik

Lakukan percobaan dan iterasi

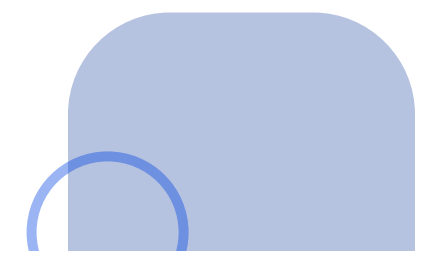
Manfaatkan fitur lanjutan dan filter yg ada

Gunakan operator wildcard (*) dan (?)

Cluster Number and its Label



| Cluster | Color | Label |
|---------|--------|---|
| 1 | Red | Sustainable development, climate change, policy |
| 2 | Blue | Urbanization, China |
| 3 | Purple | Land-use |
| 4 | Sand | Ecosystem services, spatial analysis |
| 5 | Green | Remote Sensing, GIS, Unites States |



✉ info@bibliometrix.org

BIBLIOMETRIX



HOME DOWNLOAD FEATURES ▼ TUTORIAL ▼ FAQ BLOG DONATE ABOUT US ▼ SUMMER SCHOOL ▼ LOGIN

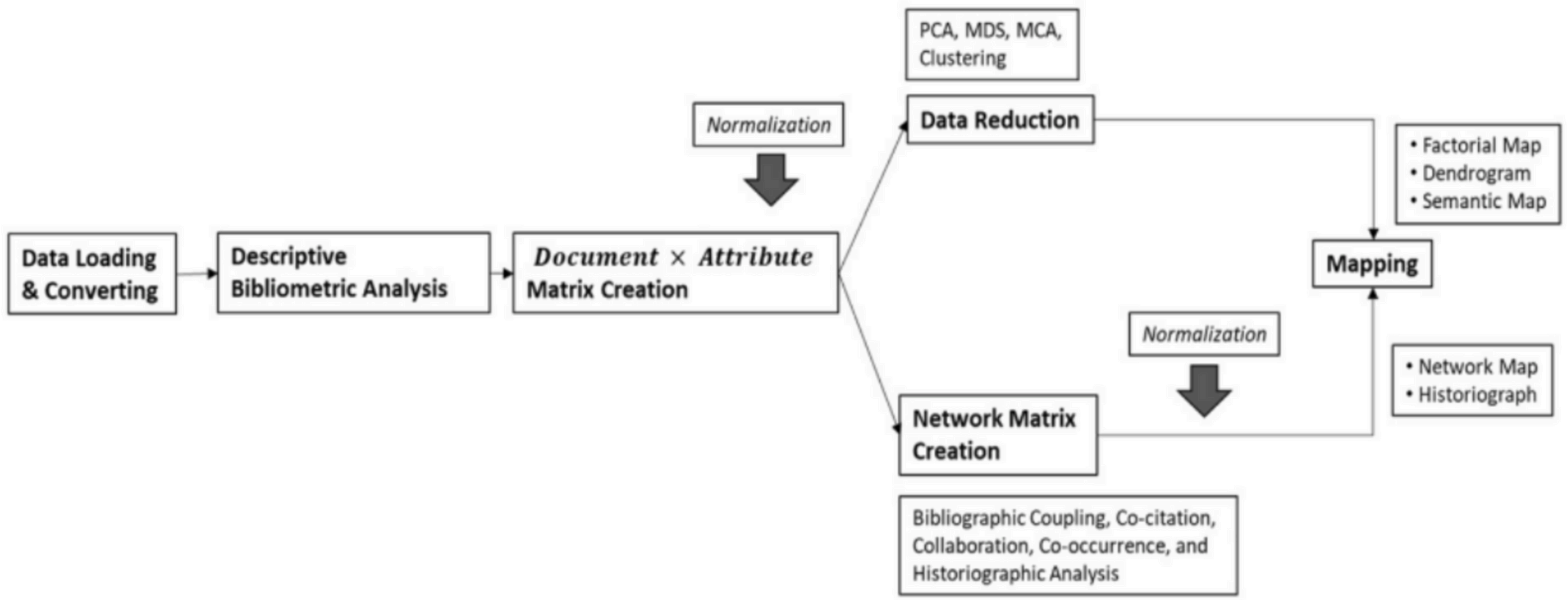


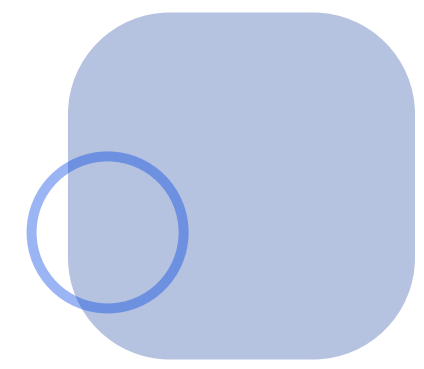
bibliometrix is developed by [Massimo Aria](#) and [Corrado Cuccurullo](#).

bibliometrix is an open-source tool for quantitative research in scientometrics and bibliometrics that includes all the main bibliometric methods of analysis.

With ***biblioshiny***, a shiny web app, *bibliometrix* has become very easy to use even for those who have no coding skills.







Main Information

Plot

Table

Biblio AI

Info & References

Timespan

2005:2026



Sources

777



Documents

10672



Annual Growth Rate

9.35 %



Authors

19434



Authors of single-authored docs

713



International Co-Authorship

29.47 %



Co-Authors per Doc

4.11



Author's Keywords (DE)

17088



References

63742



Document Average Age

4.71



Average citations per doc

18.13

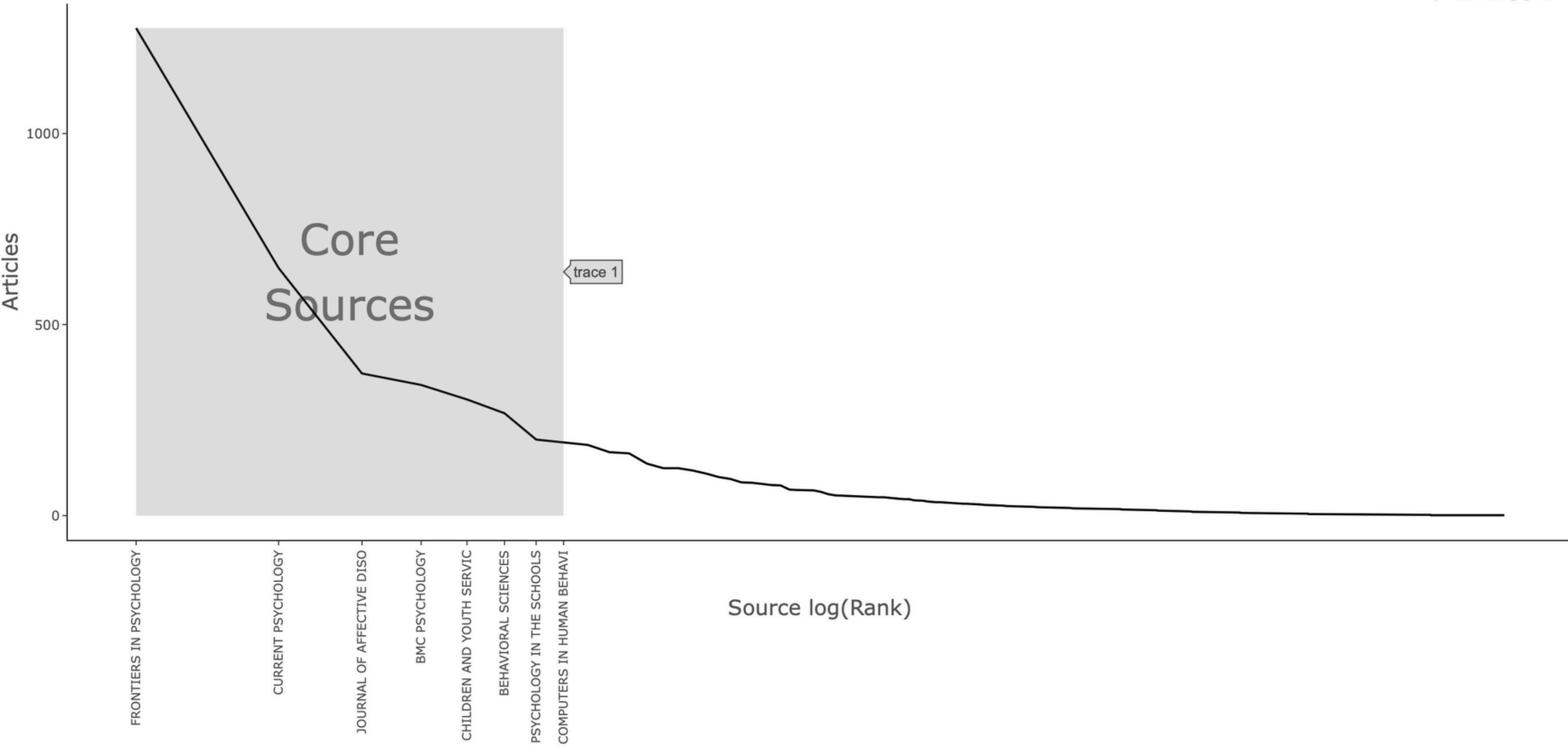


Core Sources by Bradford's Law



Plot

Table



Pada kolom A Tabel 1, disusun jumlah jurnal menurut peringkatnya menghasilkan artikel. Pada kolom B disusun jumlah artikel yang dihasilkan oleh jurnal pada peringkat tersebut. Pada kolom C diletakkan jumlah kumulatif artikel. Sedangkan pada kolom D adalah persentase kumulatif artikel yang dihasilkan.

Dari tabel tersebut diatas dapat diamati berbagai hal berikut: Sebanyak 37 artikel atau 13 persen akan diperoleh hanya dari sebuah jurnal, yaitu pada jurnal peringkat pertama; Sebanyak 89 artikel (32 persen) diperoleh hanya dari empat jurnal; Bahkan 138 artikel (50 persen) akan diperoleh meski kita hanya mencarinya pada 11 jurnal (11,34 persen). Metode pendekatan seperti ini dapat digunakan oleh pustakawan dalam usaha untuk menentukan jurnal inti atau sebaliknya untuk penyiangan koleksi.

Jika data dalam Tabel 1 dikelompokkan menjadi empat kelompok jurnal yang memuat kurang lebih sama jumlah artikelnya, maka akan didapat Tabel 2 berikut:

Tabel 2. Pembagian Daerah (Zones) Jurnal Menurut Bradford/Brookes

| Daerah | Jumlah Artikel | Jumlah Jurnal | Pengganda Bradford (n) |
|-----------|----------------|---------------|------------------------|
| 1 | 62 | 2 | - |
| 2 | 60 | 6 | 3.0 |
| 3 | 66 | 17 | 2.8 |
| 4 | 67 | 50 | 2.9 |
| Rata-rata | 63 | | 2.9 |

Kalau dikaitkan dengan rumusan awal Bradford yang menyatakan perbandingan jumlah jurnal yang memuat artikel kurang lebih sama (rata-rata 63) adalah $1 : n : n^2 : n^3$, maka dapat diamati bahwa:

$$1 : (2.9) : (2.9)^2 : (2.9)^3$$

Kurang lebih sama dengan perbandingan jumlah jurnal pada ke empat daerah yaitu:

$$2 : 6 : 17 : 50$$

Drott menyatakan: "as far as the distribution of articles over journal titles is concerned, the outcome of this process is predictable." Brookes bahkan lebih maju dengan mengajukan rumus berikut:

$$R(n) = k \log n/s$$

Rumus diatas digunakan oleh Brookes untuk menduga jumlah kumulatif artikel yang akan ditemukan (kolom B pada Tabel 1); dimana n adalah peringkat jurnal; k dan s adalah bilangan konstan. Dengan memilih sembarang n kita dapat menggunakan rumusan diatas untuk menghitung nilai R(n). Umpamanya, dengan memilih peringkat ke lima (n=5), maka akan diperoleh hasil seperti berikut (Nilai k = 140 dan s = 1 telah dihitung oleh Drott)

$$R(n) = 140 \log 5 = 140 \times 0.70 = 98$$

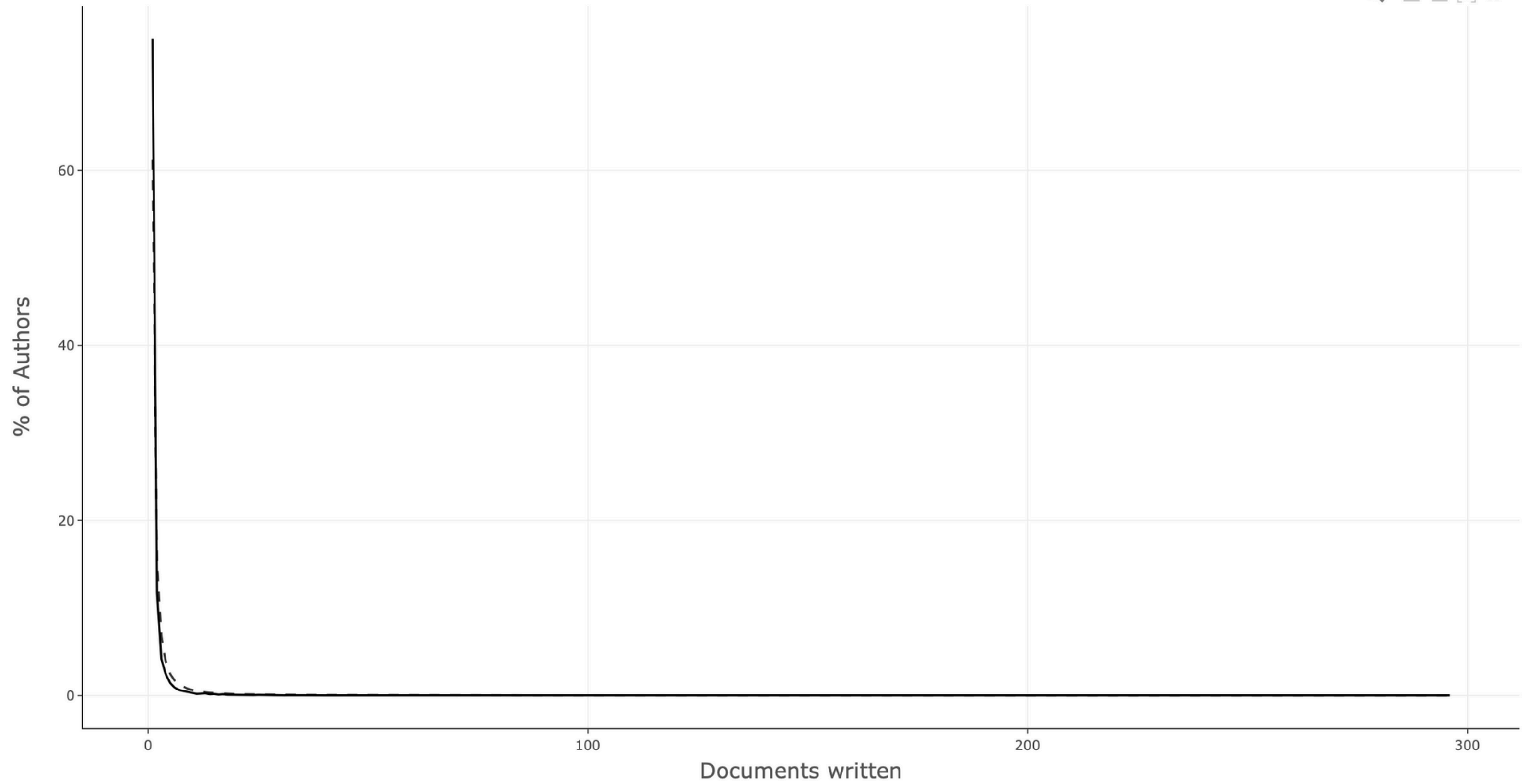
Dengan memasukkan nilai-nilai n sama dengan 1 sampai 20 pada persamaan diatas, maka akan didapatkan nilai-nilai R(n). Pasangan nilai-nilai n dan R(n) dapat digunakan untuk menggambar sebuah kurva, seperti pada Gambar 1.

Terlihat bahwa nilai dugaan sedikit lebih rendah dari pada nilai pengamatan (101). Dengan selisih 3 atau 2.97 persen, maka penyimpangan ini dianggap cukup baik untuk penelitian dalam bidang sosial.

Author Productivity through Lotka's Law

Plot

Table



Oleh Lotka frekuensi kedua peubah itu dipetakan dalam skala logaritma. Ternyata titik-titik itu tersebar di sekitar garis lurus dengan sudut kemiringan 2.

Rumus umum yang menyatakan hubungan antara frekuensi dari nama-nama pengarang (Y) yang membuat jumlah karya tertentu (X), yang kemudian disebut sebagai hukum kuadrat terbalik, adalah :

$$Y = \frac{C}{X^n}$$

Untuk $n = 2$ berlaku hukum kuadrat terbalik produktivitas ilmiah dengan nilai konstanta sebagai berikut :

$$Y_1 = \frac{K}{1^2}$$

$$Y_2 = \frac{K}{2^2}$$

$$Y_3 = \frac{K}{3^2}$$



$$Y_n = \frac{K}{n^2}$$

$$\Sigma Y = \frac{K}{1^2} + \frac{K}{2^2} + \frac{K}{3^2} + \dots + \frac{K}{n^2}$$

$$= K \left(\frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots + \frac{1}{n^2} \right)$$

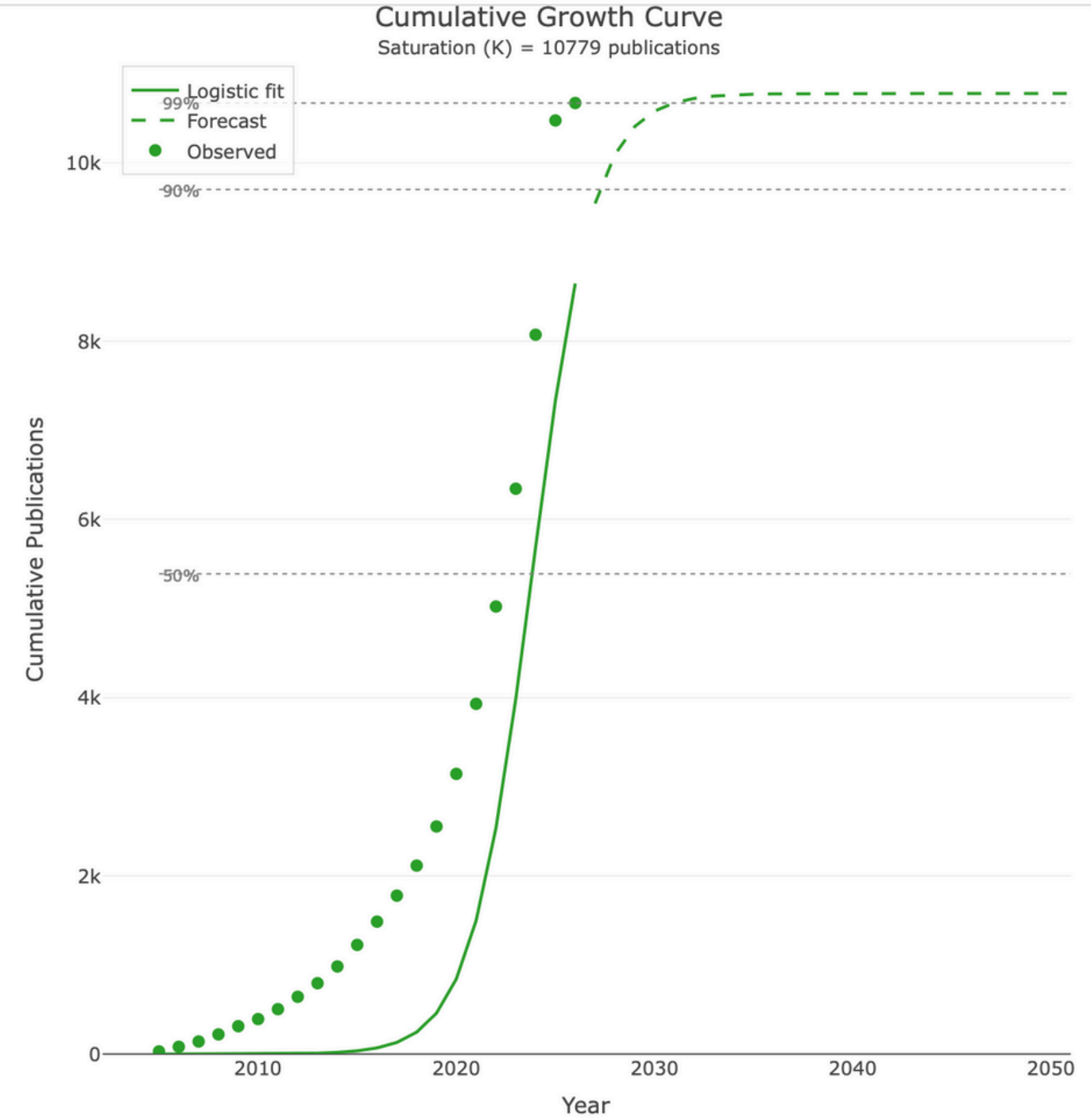
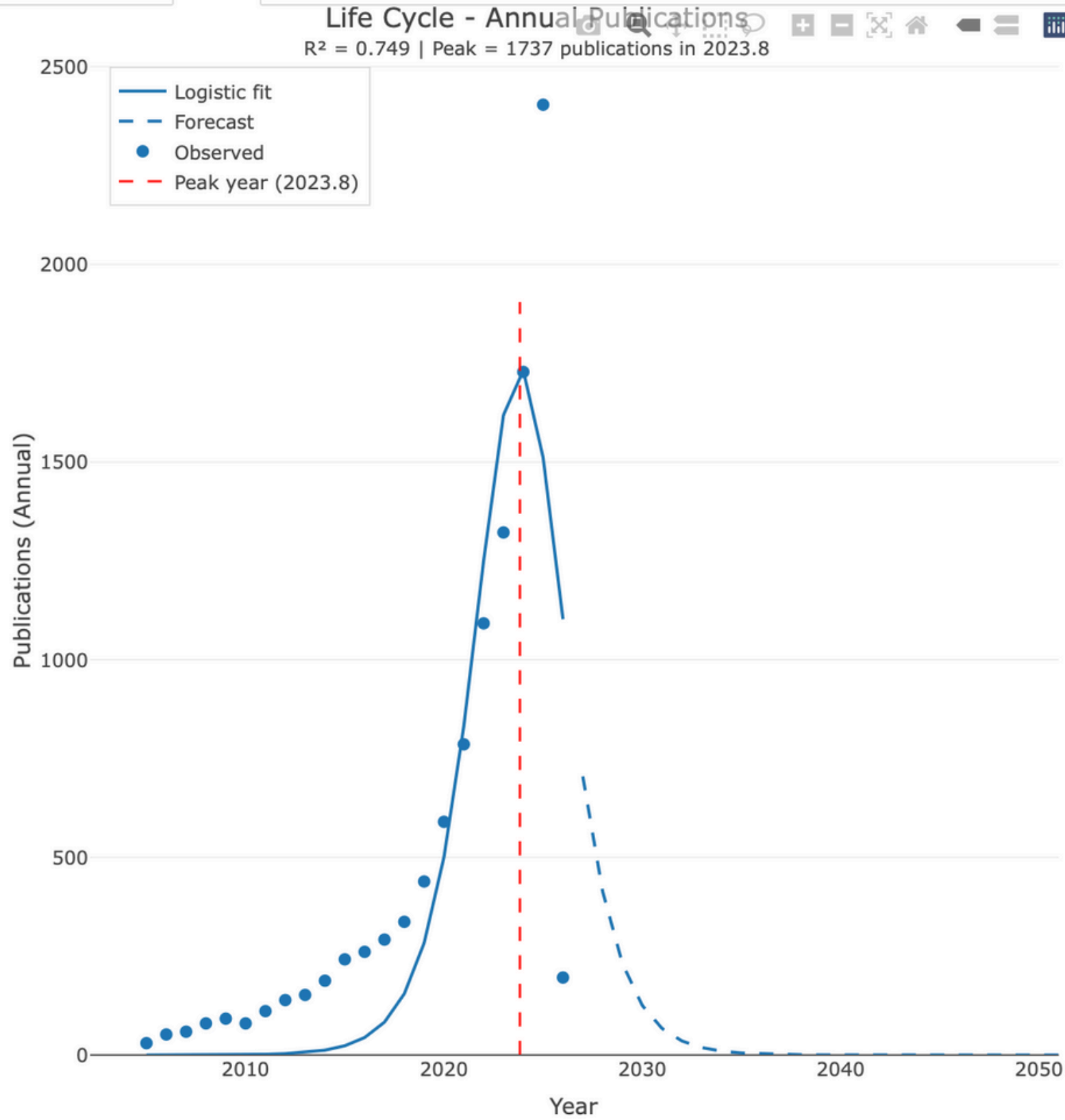
$$= K \left(\Sigma \frac{1}{X^2} \right) = K \frac{\pi^2}{6}$$

$$K = \frac{6}{\pi^2} \Sigma Y$$

Life Cycle of Scientific Production



Summary Plot Biblio AI Info & References

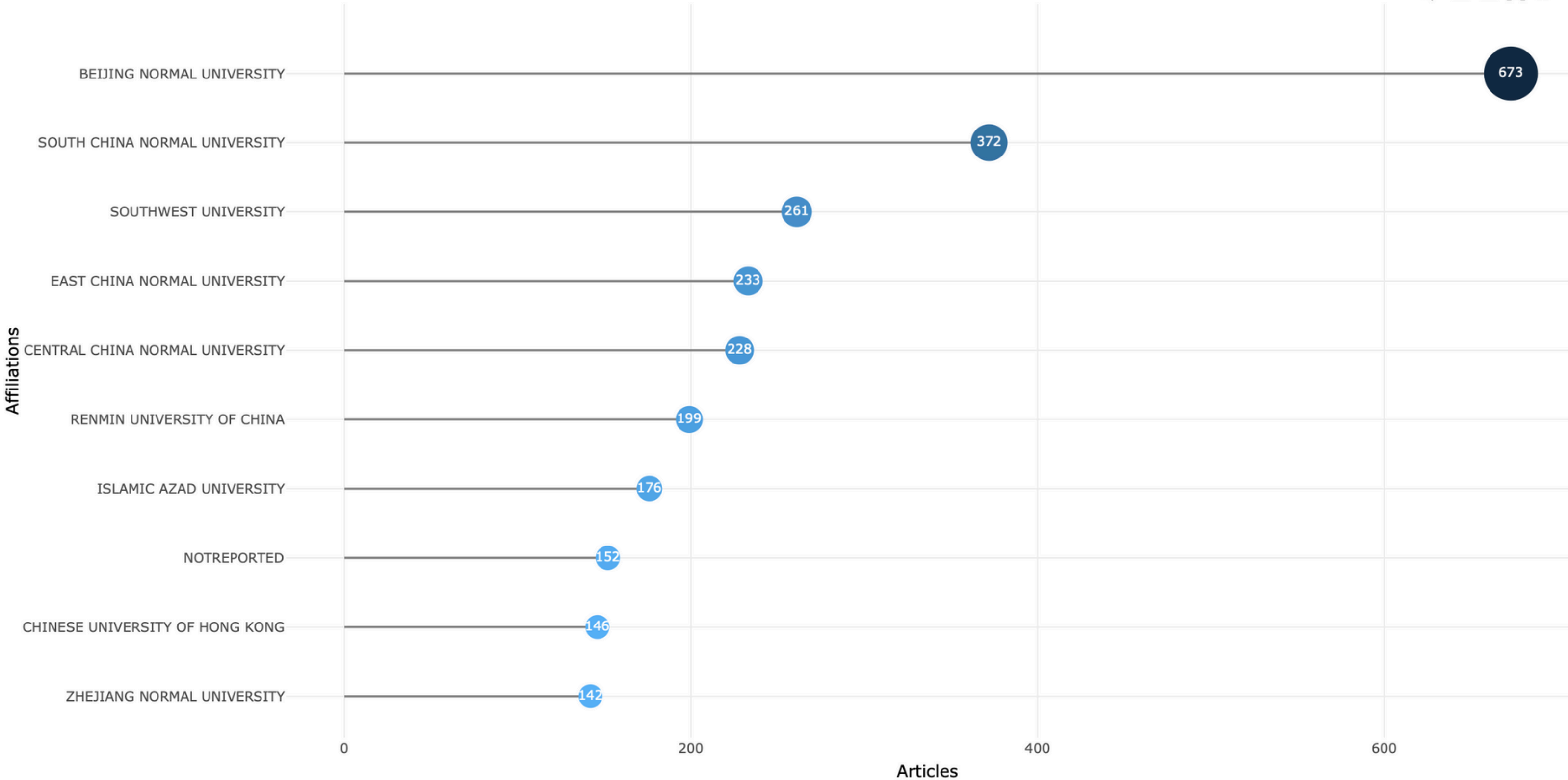


Most Relevant Affiliations



Plot

Table



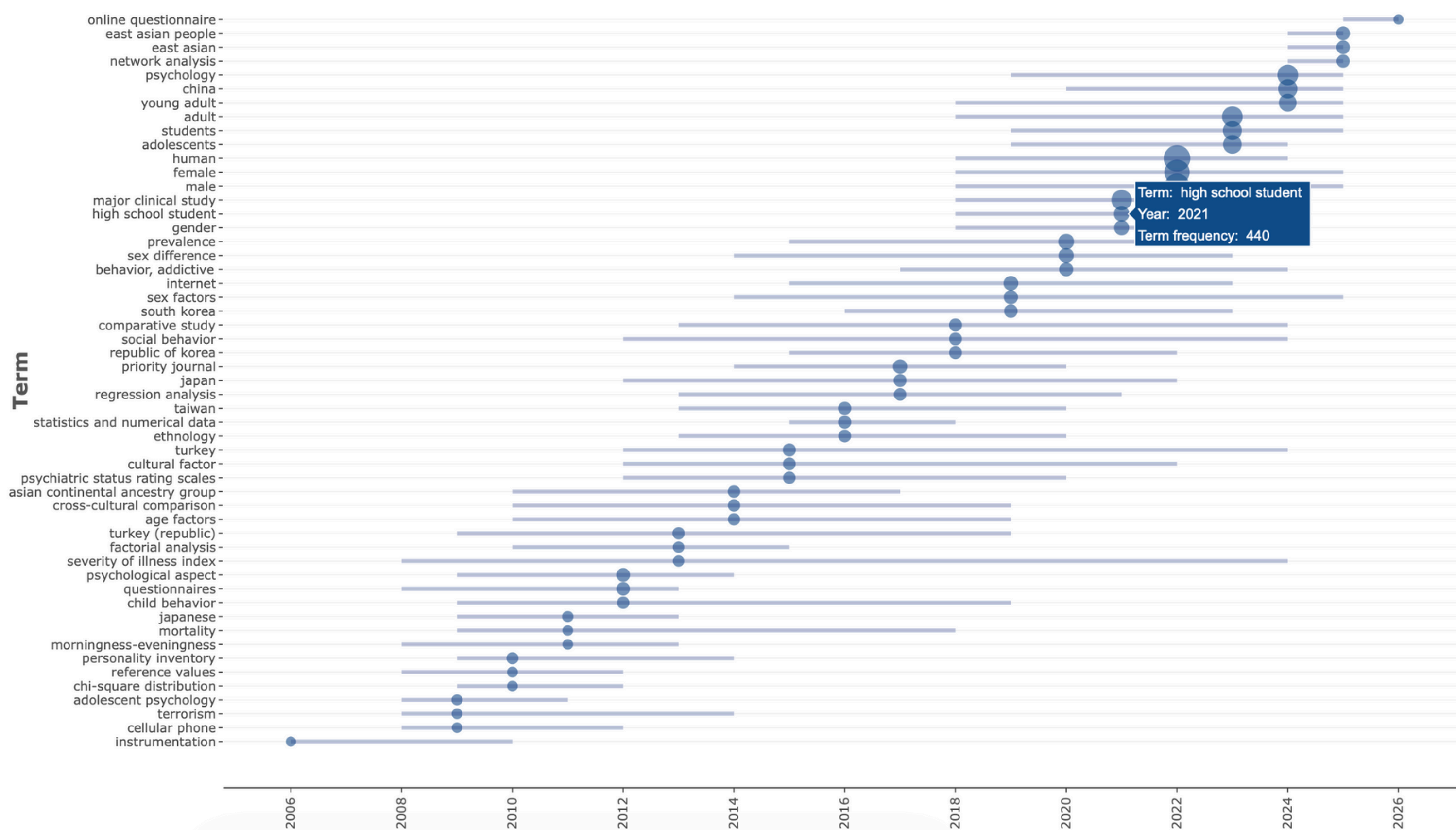
Trend Topics

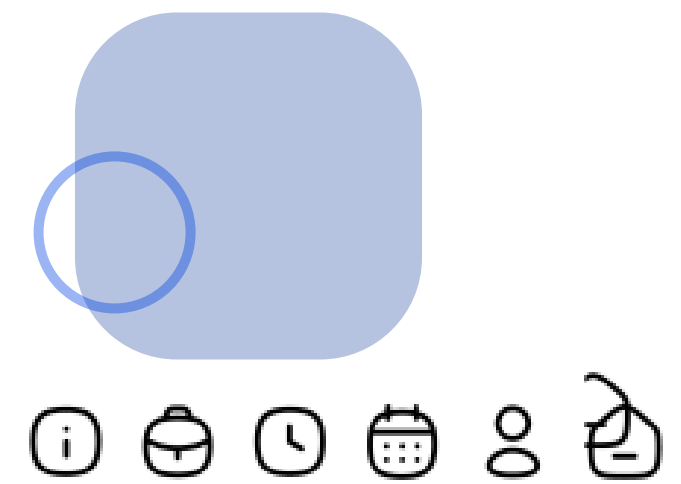


Plot Table **Biblio AI**



Term





Menyuguhkan analisis deskriptif

Analisis performa yang dapat dilakukan:

Publication-related metrics

- Total publications (TP)
- Number of contributing authors (NCA)
- Sole-authored publications (SA)
- Co-authored publications (CA)
- Number of active years of publication (NAY)
- Productivity per active year of publication (PAY)

Citation-related metrics

- Total citations (TC)
- Average citations (AC)

Citation-and-publication-related metrics

- Collaboration index (CI)
- Collaboration coefficient (CC)
- Number of cited publications (NCP)
- Proportion of cited publications (PCP)
- Citations per cited publication (CCP)
- *h*-index (*h*)
- *g*-index (*g*)
- *i*-index (*i*-10, *i*-100, *i*-200)

Donthu, N., S. Kumar, D. Mukherjee, N. Pandey, and W. M. Lim. 2021. "How to Conduct a Bibliometric Analysis: An Overview and Guidelines." *Journal of Business Research* 133:285–96. doi: 10.1016/j.jbusres.2021.04.070

**TERIMAKASIH
MATURNUWUN**

