



Discover Web of Science Research Assistant for Research Discovery and Topic Exploration



官欣瑩 Renee Guan
Strategic Customer
Success Consultant,
Clarivate



Promote Information Literacy and Streamline Research Discovery



Each year more researchers enter the field, and the number of published papers increases.

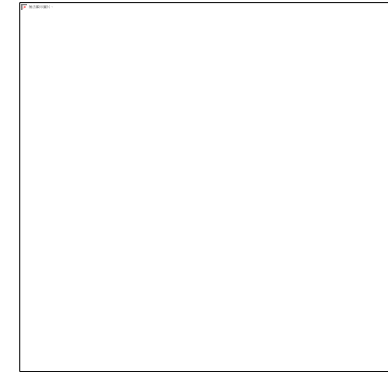
- Over 4 million articles are published annually¹.
- On average, scientists read 264 articles per year².
- The number of predatory journals has increased.



How can you confidently and quickly choose the right papers for your research?

¹ 2021 STM Report

² <http://www.nature.com/news/scientists-may-be-reaching-a-peak-in-reading-habits-1.14658>



**Pinpoint relevant research
with the
Web of Science Core
Collection**





Web of Science Platform

Core Collection

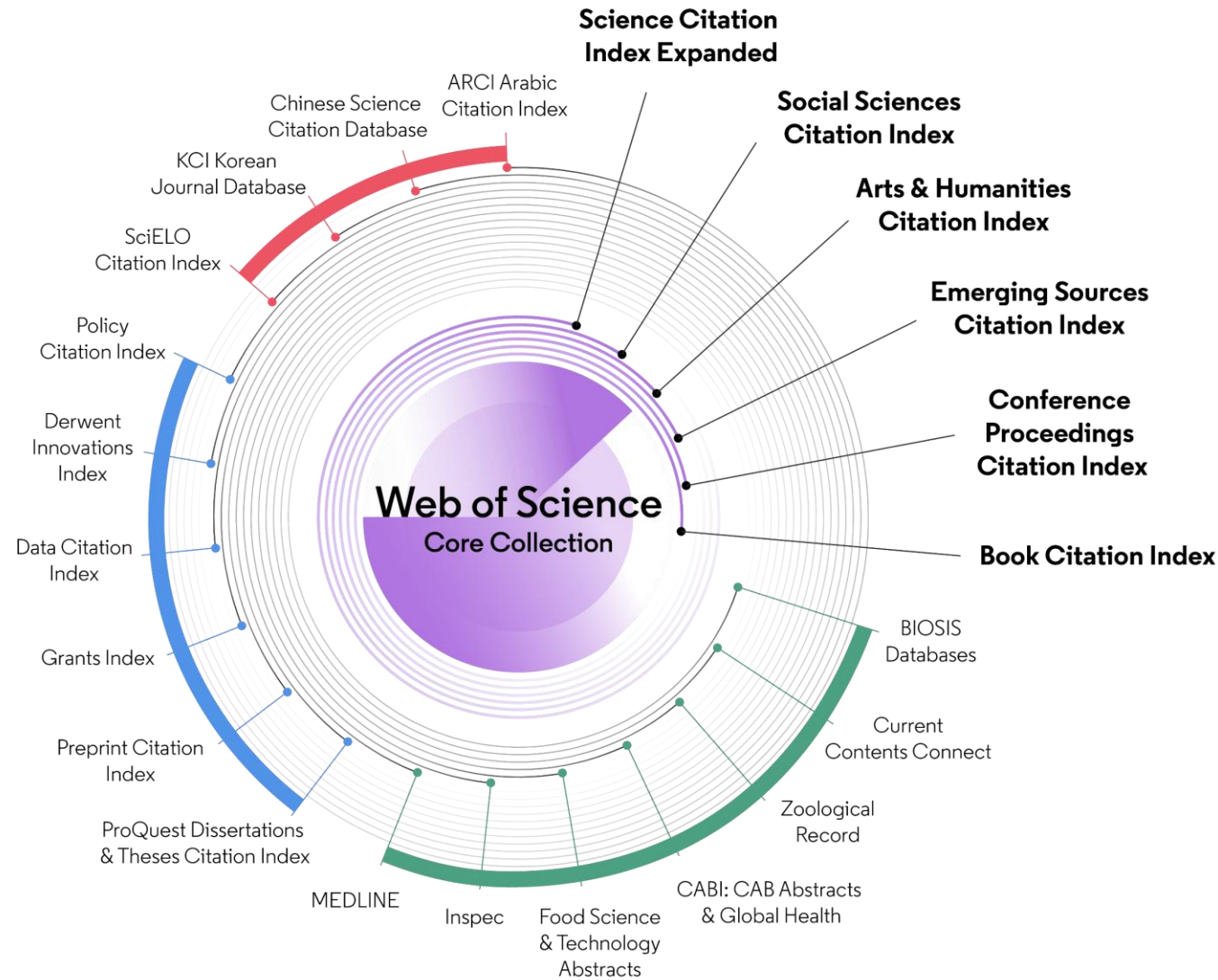
- Journal Articles
- Conference Papers
- Books
- Awarded Grants
- Preprints
- Dissertations & Theses
- Research Datasets
- Patents
- Policy Documents
- Additional Journal Articles

Maximize the results of limited research time with a streamlined discovery experience

Search across more than...

- 240 million records
- 3 billion cited references
- 34,950 active journals
- 254 subject categories
- 6.2 million dissertations and theses
- 2.5 million preprints
- 131 million patents for 68 million inventions
- 17.4 million data sets and studies
- 5.7 million awarded grants
- 223K policy documents

...in a single platform



Specialty collections Beyond published literature Regional collections



Preprint Citation Index

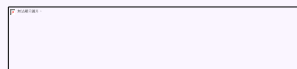
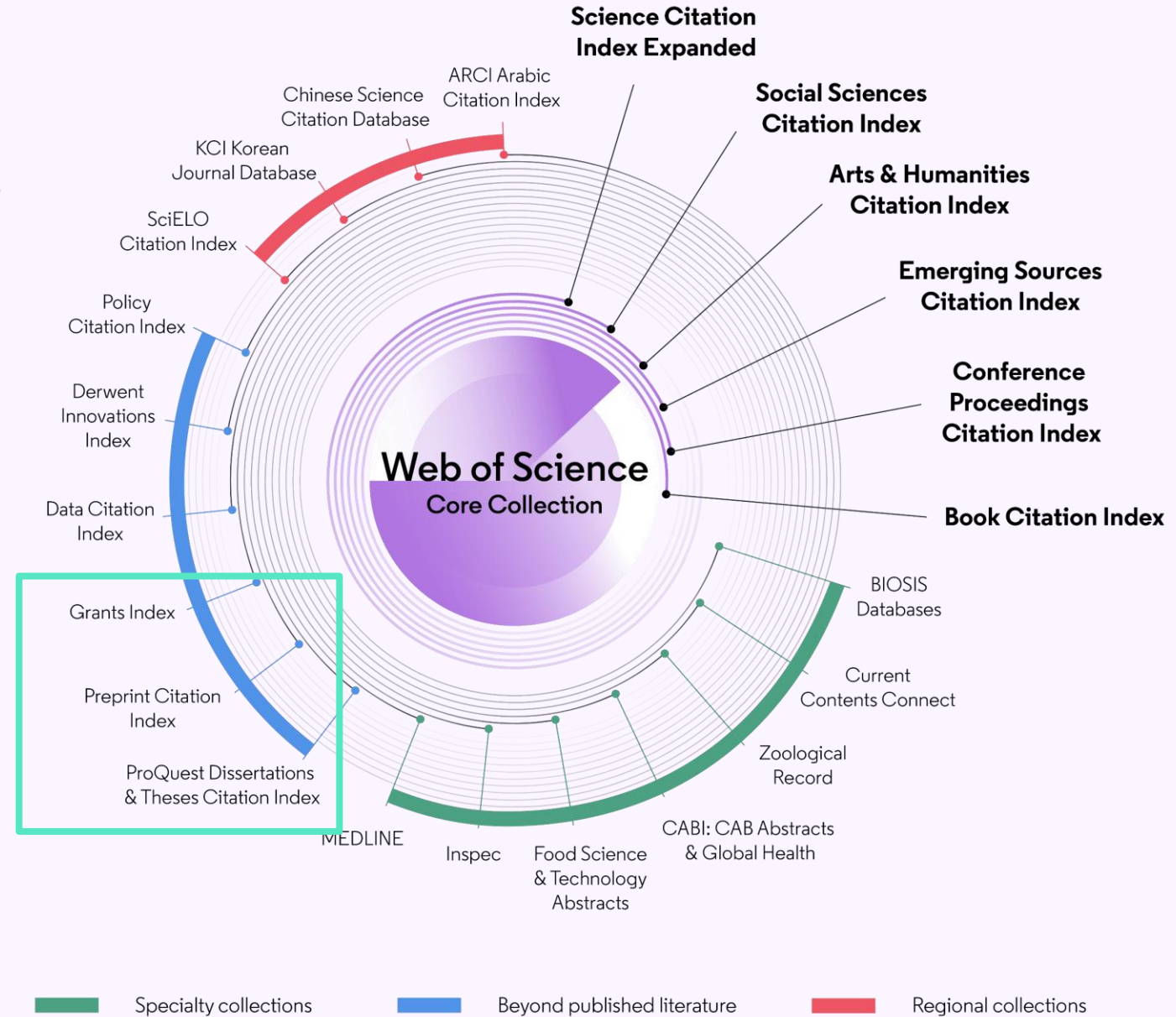
- The research outputs of scientists, before **being formally published**, that are voluntarily made available on the internet for the purpose of sharing with peers.
- Tracking similar research topics and R&D progress.

ProQuest Dissertations & Theses Citation Index

- Understanding a topic' s evolution by **linking early, emerging, and established research**.
- A more comprehensive review by including unpublished work and diverse perspectives.

Grant Index

- Provides quick access to **globally awarded grant** information, helping researchers with new grant applications..



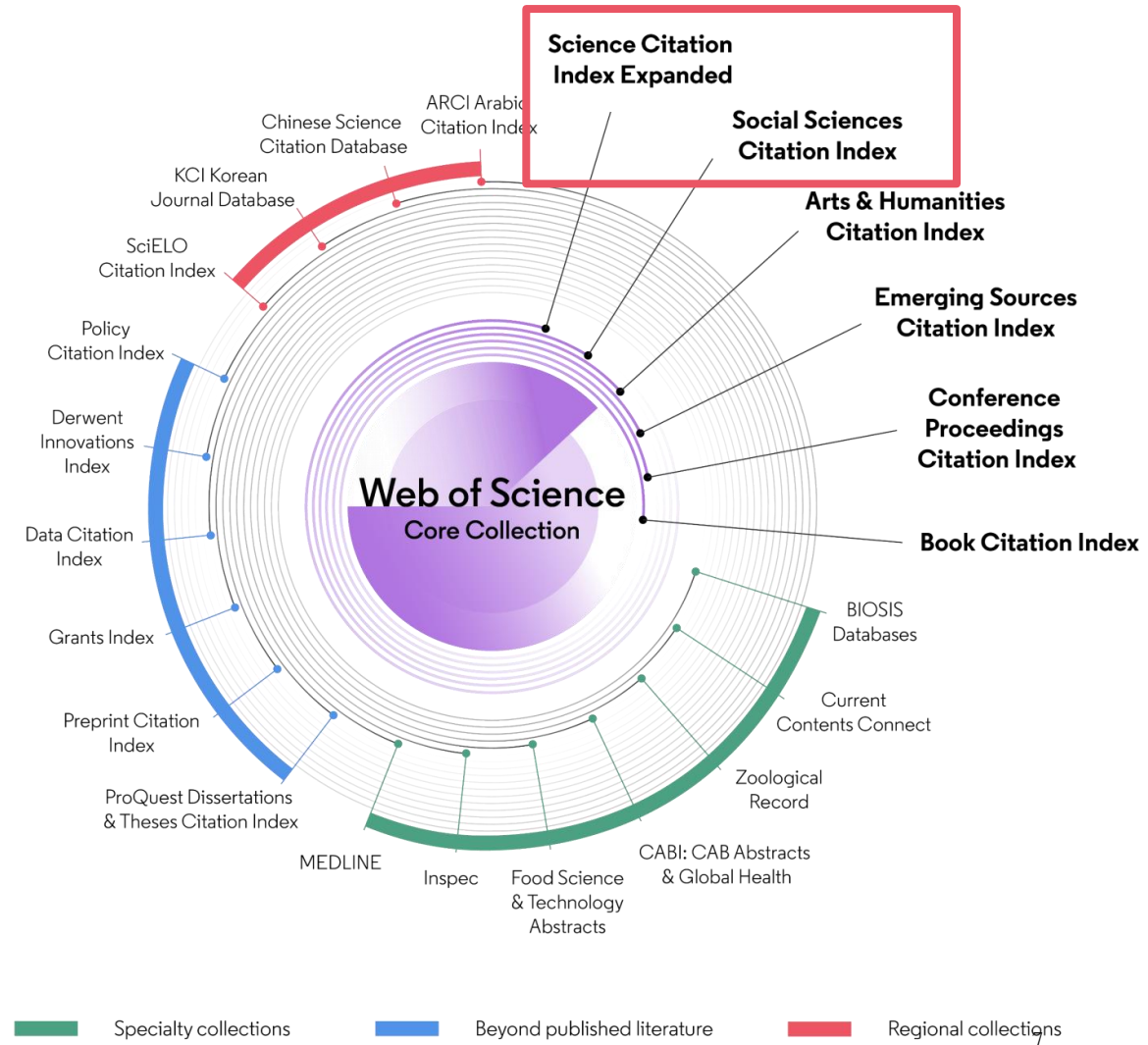


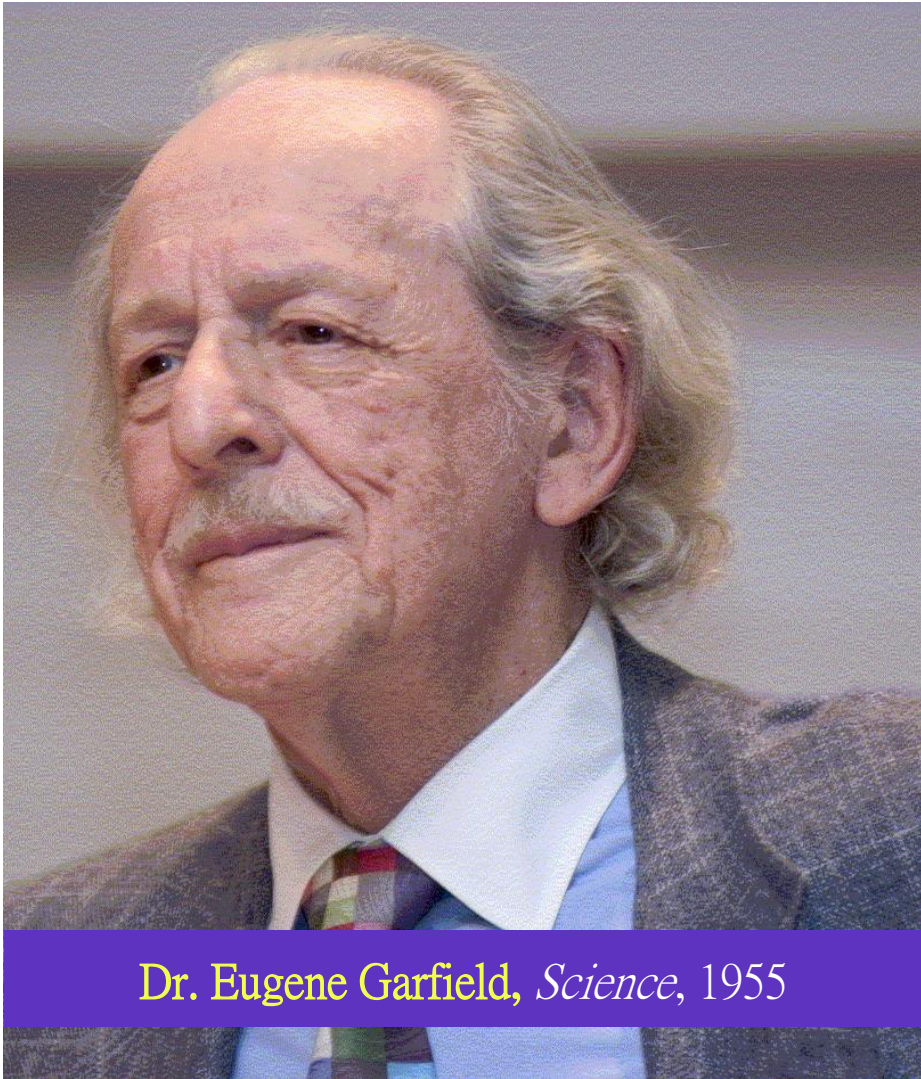
Web of Science Core Collection

Statistics as of October 2021

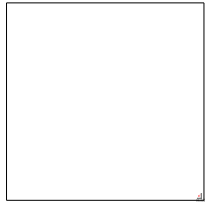
The rigorous journal selection criteria ensure the quality control of academic resources.

- The Web of Science Core Collection strictly follows the consistent selection criteria established over the past 50 years, **curating the most academically influential and high-quality journals worldwide**
- **Cover to cover**, including comprehensive citation details.
- The Web of Science Core Collection curates high-quality academic resources around the world, **saving significant time and effort in reading literature** and selecting top-tier articles.





Dr. Eugene Garfield, *Science*, 1955

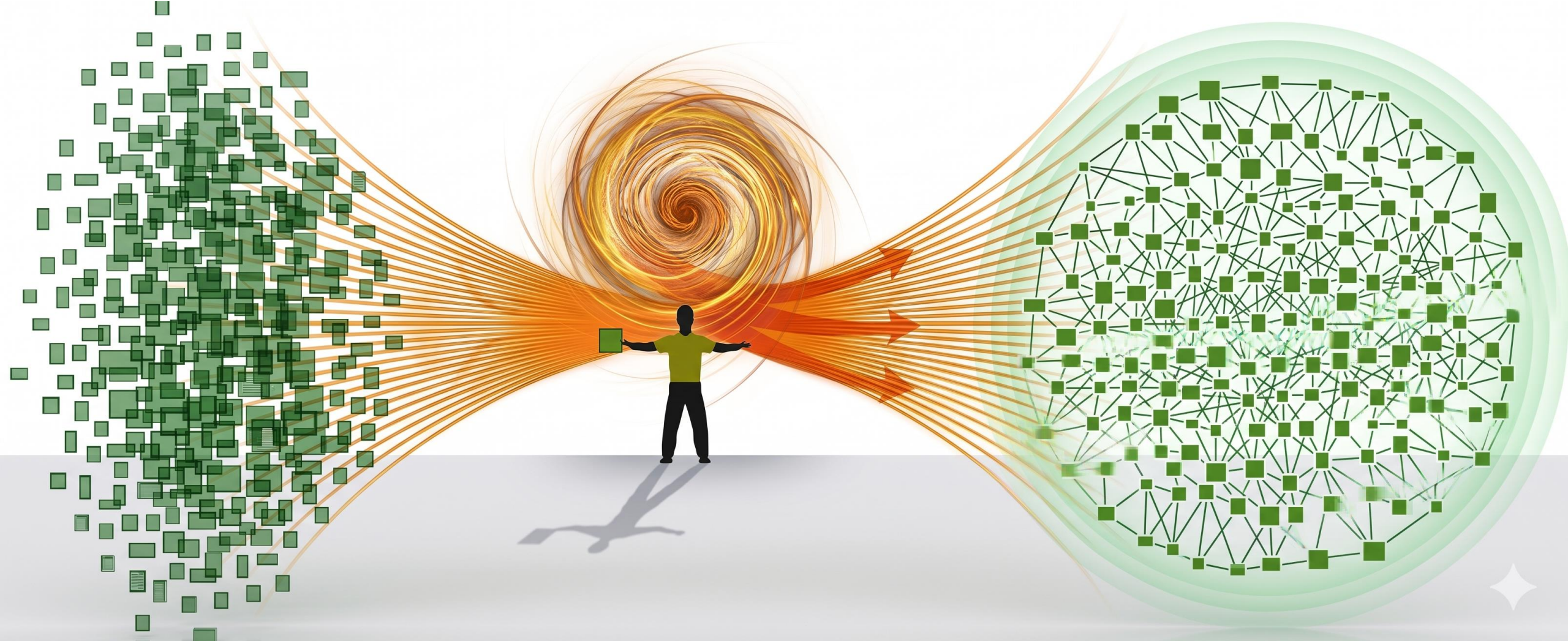


“...a citation index...tends to bring together material that would never be collated by the usual subject indexing. It is best described as an association-of-ideas index...”



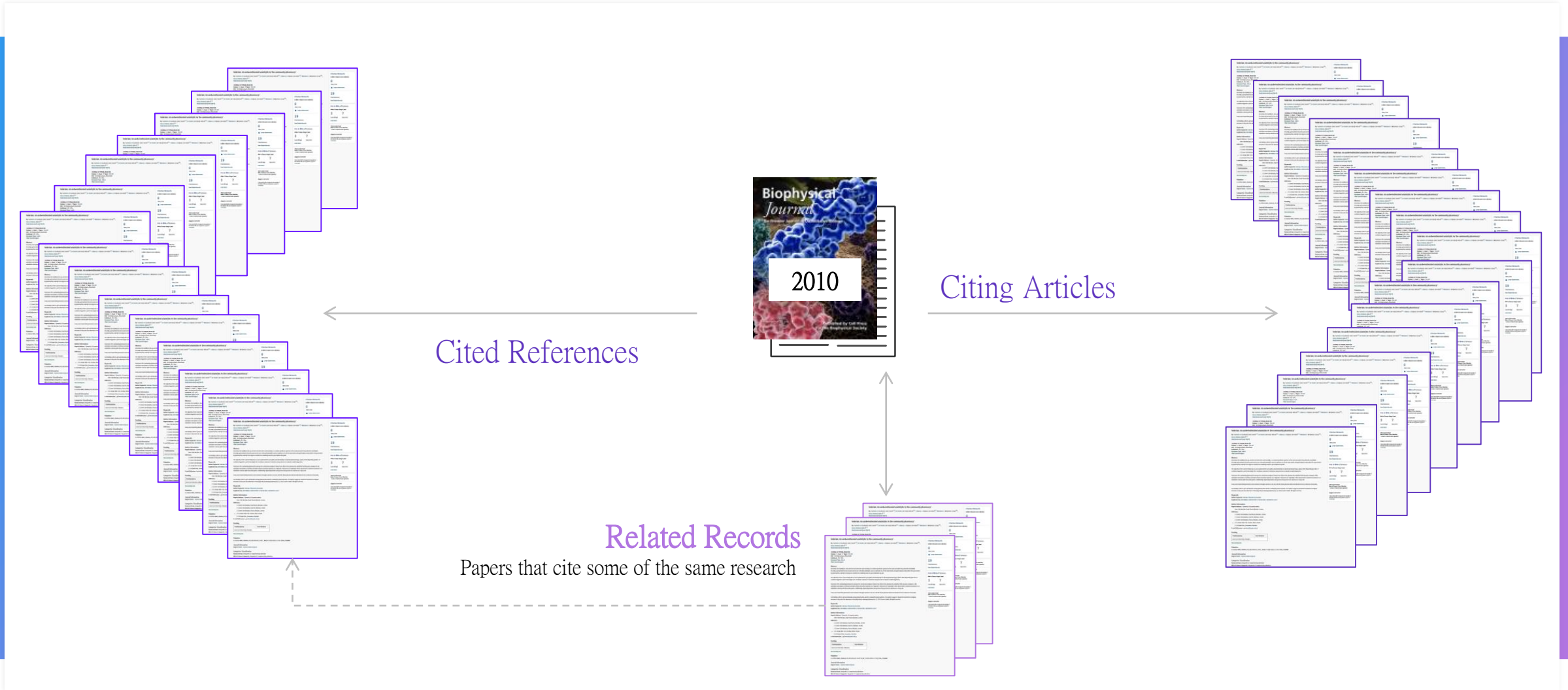
Citations: Giving life to scientific literature

Accurate and Comprehensive Research Data Network



Uncover Hidden Connections

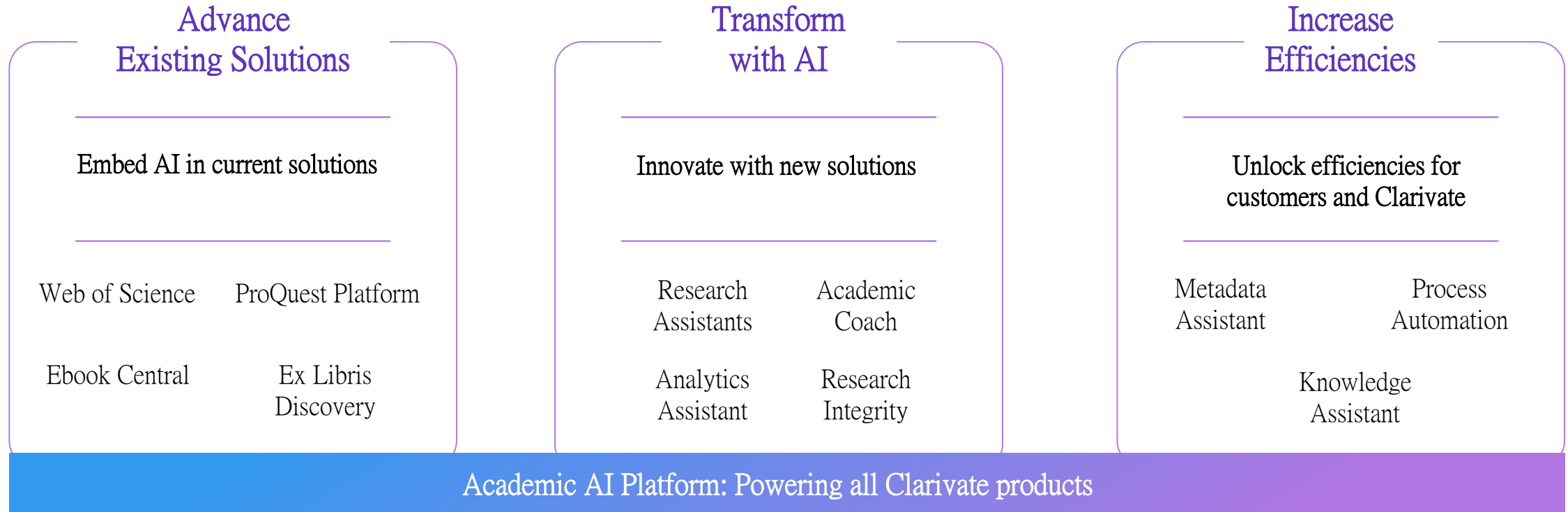
Navigate an interconnected web of multidisciplinary research to locate papers relevant to your work.



Intelligent, task-based guides

Agentic AI in Web of Science Research Assistant

Academic AI: Our Strategy & Approach



Uniquely designed for academic needs

Authoritative, trusted scholarly content

Embedded in academic workflows

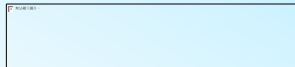
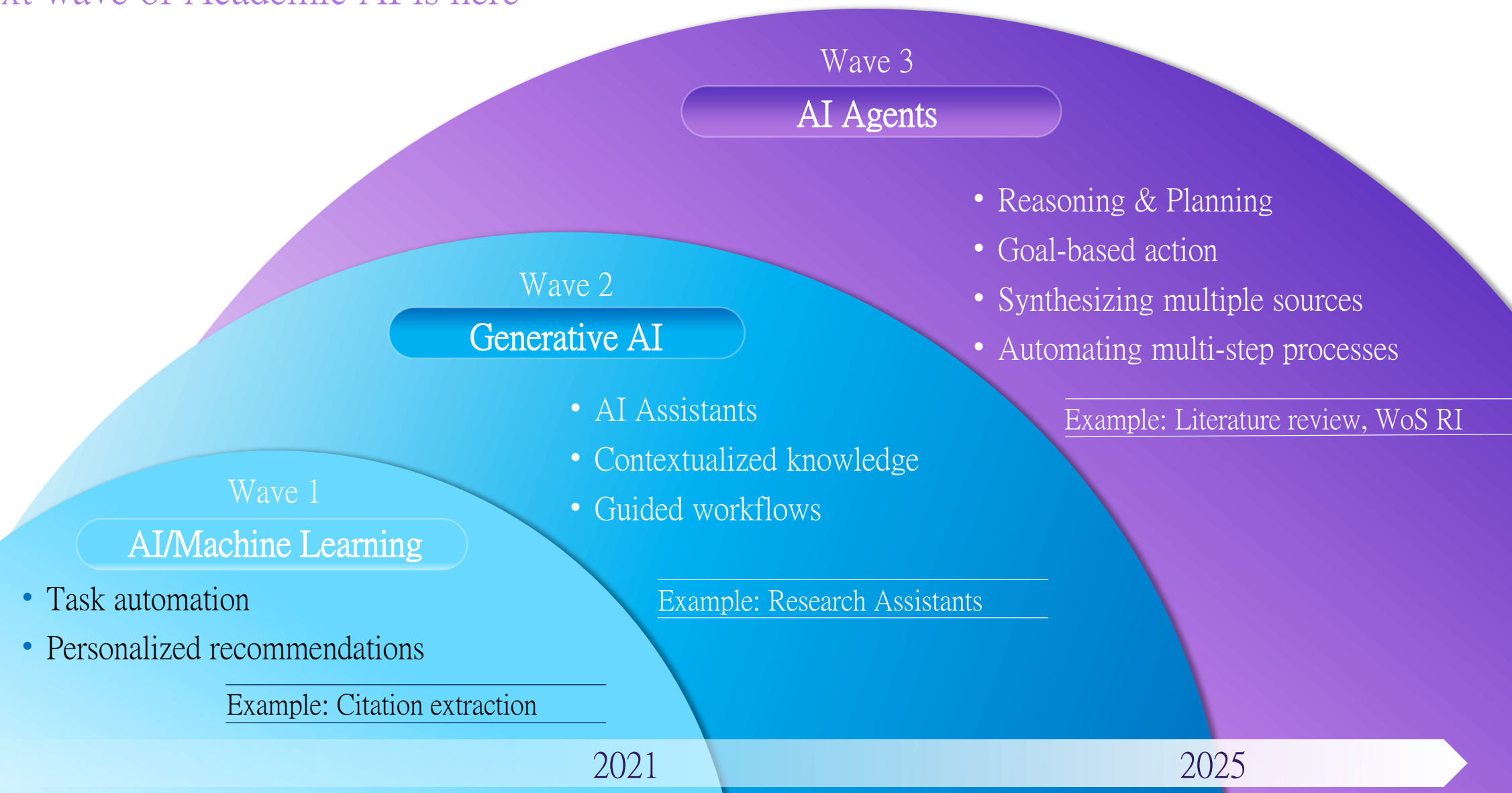
Secured & private

Deep partnerships with academic community

Quality testing for responsible AI



The next wave of Academic AI is here



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This document gives an overview of our [Corporate privacy notice](#).



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This [privacy notice](#) details how we process your personal data when you apply for a job with us.



Cookie notice

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Our data protection framework

This [document](#) gives an overview of our data protection program.



Privacy notice for California residents

This [privacy notice](#) explains how we process the personal information of California residents.



Privacy notice for events and communities

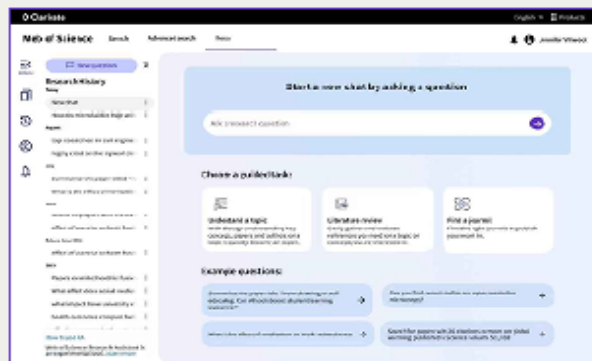
[This notice](#) applies when you register for, use or participate in any Clarivate event, webinar, training, or online community or forum.

Data privacy and trust are top priorities when designing our AI tools. We comply with data privacy regulations and adhere to the evolving global AI legislation.

Workflow of Research via AI

Supporting Research Tasks From Ideation to Publishing

Topic Exploration



Topic Exploration

Web of Science Research Assistant

High-impact literatures
recommendations, Citation maps,
Research trend, Literature
reviews

In-Depth Reading

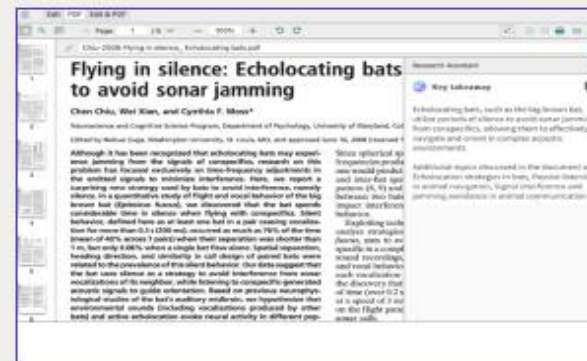


References management,
Writing assistance,
Collaboration tools, Translation
and Summary

ProQuest Research Assistant

Deep reading, Summary
generation, Topic comparison,
Research mind-mapping

Production & Writing

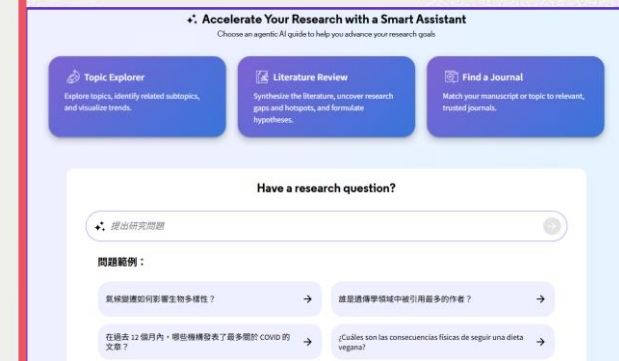


Production & Writing

EndNote 2025 Research Assistant

References management,
Writing assistance,
Collaboration tools, Translation
and Summary

Publishing



Publishing

Web of Science Research Assistant

Find journals, understand
journal impact, and grasp
publication frequency

How to Avoid "AI Hallucinations" in the GenAI Era

General gen-AI in Research: Can We Trust It?

幫我找關於activated sludge(AS)相關的文獻



Here are the details for the activated sludge (AS) studies I summarized:

1. Modeling and Simulation of AS Systems:

- **Authors:** Various (Details in the study by Zhou D., Niu S., Xiong Y., Yang Y., Dong S.)
- **Journal:** *Bioresource Technology*
- **Abstract Summary:** The study focuses on the dynamic granulation and microbial community behavior in a complete mixing bioreactor. It highlights the non-necessity of microbial selection pressure for granulation under optimized operational conditions.
- **DOI:** [Link to article\(SpringerLink\)](#).



2. Microbial Community Analysis in AS:

- **Authors:** Do T.T., Delaney S., Walsh F.
- **Journal:** *FEMS Microbiology Letters*
- **Abstract Summary:** This paper discusses the bacterial community structure in wastewater treatment plant effluents using 16S rRNA gene-based analysis. It provides insight into how microbial diversity affects the AS process.
- **DOI:** [Link to article\(SpringerLink\)](#).



3. Effluent Treatment Technologies:

- **Authors:** Ghumra D.P., Agarkoti C., Gogate P.R.
- **Journal:** *Process Safety and Environmental Protection*
- **Abstract Summary:** The review highlights improvements in effluent treatment using AS systems, focusing on advances in treatment technologies that enhance biodegradation and improve efficiency.
- **DOI:** [Link to article\(SpringerLink\)](#).



Home > [Advanced and Innovative Approaches of Environmental Biotechnology in Industrial Wastewater Treatment](#) > Chapter

Activated Sludge Process for Wastewater Treatment

Chapter | First Online: 01 August 2023
pp 23–50 | [Cite this chapter](#)



[Advanced and Innovative Approaches of Environmental Biotechnology in Industrial Wastewater Treatment](#)

Farzana Yeasmin, Md. Rasheduzzaman, Mohammed Manik & M. Mehedi Hasan

[Access this chapter](#)

Mismatched Authors, Journals and all information

Home > [International Journal of Environmental Science and Technology](#) > Article

Diversity of activated sludge system microbiota by environmental and operational parameters: a scientometric analysis

Review | Published: 23 June 2024
(2024) | [Cite this article](#)



[International Journal of Environmental Science and Technology](#)

[Aims and scope](#) →

[Submit manuscript](#) →

F. K. Mezzalana, M. W. Vasconcelos, S. Gonçalves, N. C. Ghisi, G. H. Couto, M. G. B. Pagnoncelli & N. C. Gabiatti

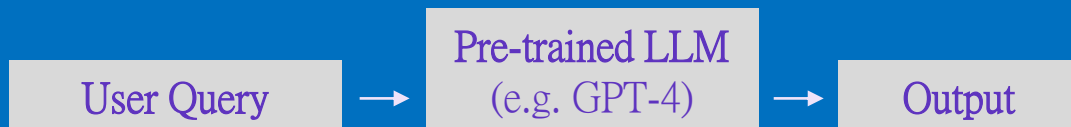
[Access this article](#)



General-purpose LLM

Training data: “The Web”

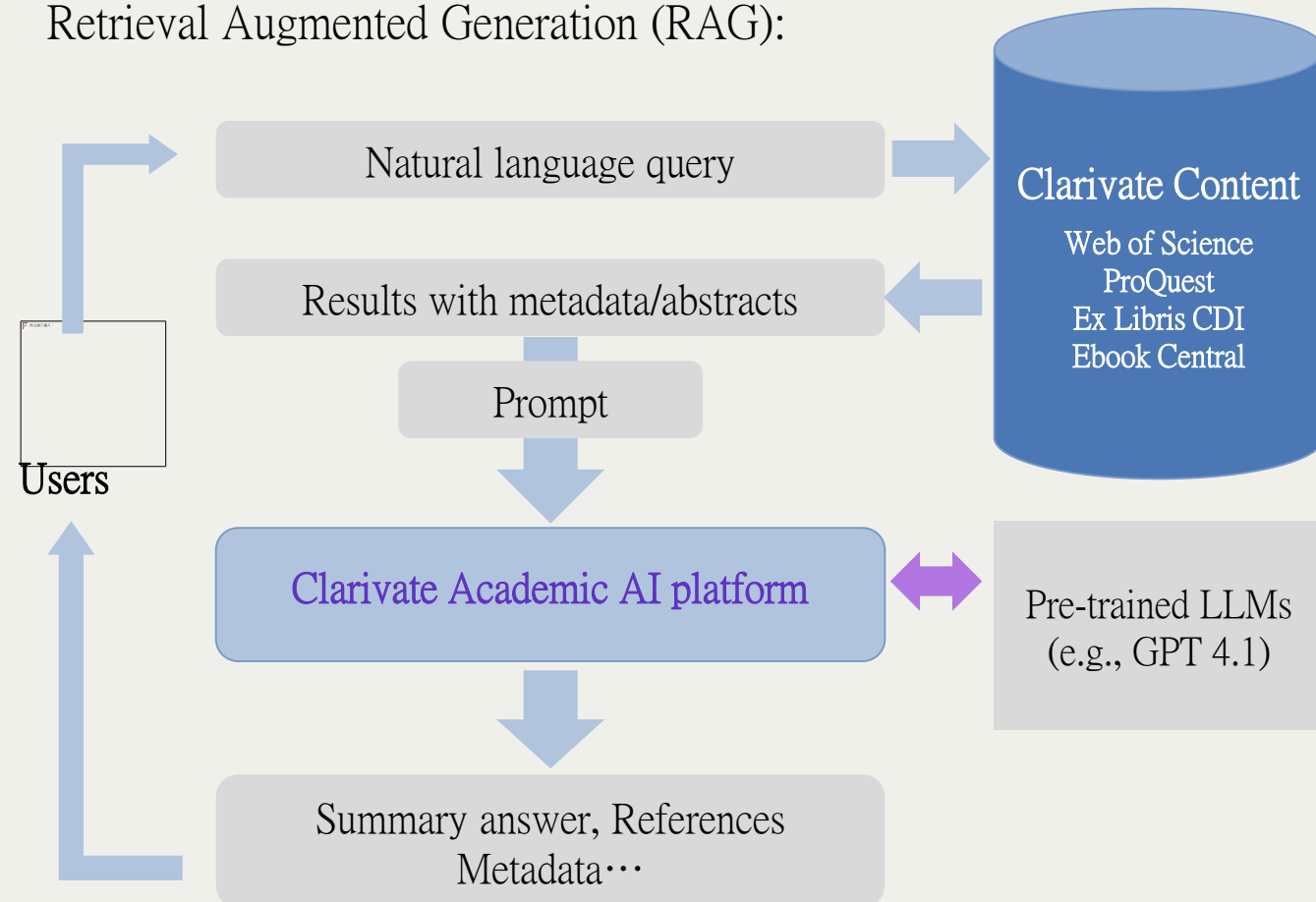
- Unspecific, not transparent
- BUT, effective at training the LLM to:
 - Understand patterns
 - Create coherent text outputs
 - Translate



Web of Science Research Assistant Grounding output in trusted content

- Results are based on trusted facts & information
- Minimizing hallucinations and bias

Retrieval Augmented Generation (RAG):



Web of Science Research Assistant

Intelligent, task-based guides

Web of Science Research Assistant

✦ Accelerate Your Research with a Smart Assistant
Choose an agentic AI guide to help you advance your research goals

Topic Explorer
Explore topics, identify related subtopics, and visualize trends.

Literature Review
Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

Find a Journal
Match your manuscript or topic to relevant, trusted journals.

Have a research question?

✦ Ask a research question

Example questions:

How does climate change impact biodiversity? →	Who are the most cited authors in genetics? →
Which institutions published the most on covid in the last 12 months? →	¿Cuáles son las consecuencias físicas de seguir una dieta vegana? →
Can you find recent studies on super-resolution microscopy? →	线粒体在癌症中扮演什么角色? →

Far more than a chatbot

An AI-powered tool that helps researchers at all levels get more out of their interactions with the world's most trusted citation index, Web of Science Core Collection.

- ✓ *Generative and agentic AI*
- ✓ *Intelligent discovery*
- ✓ *Task-based guidance*
- ✓ *Responsible AI*



Web of Science Research Assistant is powered by the Web of Science Core Collection

Trusted content from core journals across disciplines



Science Citation Index Expanded

- Over 9,500 high-quality scholarly journals
- Spanning 178 scientific disciplines



Emerging Sources Citation Index

- Over 8,000 international scholarly journals
- Across 254 academic fields



Social Science Citation Index

- Over 3,500 authoritative journals
- Covering 58 social science disciplines



Conference Proceedings Citation Index

- Records from more than 225,000 conferences
- Covering over 250 research fields



Art & Humanity Citation Index

- More than 1,800 international academic journals
- Spanning 28 subject areas in arts and humanities



Book Citation Index

- More than 139,300 academic books
- With 10,000 new titles added each year



Search more efficiently

- ✓ Natural language, multilingual search
- ✓ Concise, referenced overviews in your search language
- ✓ Verifiable responses



线粒体在癌症中扮演什么角色？ JV

线粒体在癌症中扮演着重要角色。它们是细胞能量生产和细胞代谢的主要细胞器。研究表明，癌细胞可以从免疫细胞中劫持线粒体，这揭示了癌症谜团中一个关键部分，即对正常细胞的依赖。功能性线粒体有助于癌细胞在恶性肿瘤微环境中生存，逃避免疫监视，促进进展和治疗抵抗[1]。线粒体在癌症干细胞的代谢中起着关键作用，这些细胞是导致癌症复发和转移的肿瘤组分[1]。通过线粒体，癌细胞可以逃避免疫监视，增强其恶性转化能力[4]。针对线粒体的药物在癌症治疗中显示出显著优势[4]。因此，针对线粒体可能提供新的癌症治疗机会[2]。总的来说，线粒体在癌症中扮演着重要角色，研究线粒体可能为未来提供有效且低毒性的癌症治疗方案提供理论支持[4]。

👍 🗨️ 📄 Copy text

I searched for documents with topic "mitochondria" and "cancer" and I found more than 10,000 total. Listed below are the 8 most relevant articles.

View 8 referenced documents

- 1 Targeted Anti-Mitochondrial Therapy: The Future of Oncology
Taghizadeh-Hesary, F, Akbari, H; (...); Behnam, B
OCT 2022 | GENES
- 2 Role of Mitochondria in Cancer Immune Evasion and Potential Therapeutic Approaches
Klein, K; He, KW; (...); Welsh, JW
October 16 2020 | Frontiers in Immunology
- 3 Mitochondria-Targeted Nanocarriers Promote Highly Efficient Cancer Therapy
Zeng, Z; Fang, C; (...); Zhang, K
NOV 12 2021 | FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY
- 4 To betray or to fight? The dual identity of the mitochondria in cancer
Zhang, XY; Su, QZ; (...); Jiang, GH
FEB 2021 | FUTURE OF ONCOLOGY
- 5 Perimitochondrial Enzymatic Self-Assembly for Selective Targeting the Mitochondria of Cancer Cells
He, HJ; Lin, XY; (...); Xu, B
JUNE 23 2020 | ACS NANO
- 6 Enzymatic Noncovalent Synthesis for Mitochondrial Genetic Engineering Cells
He, HJ; Lin, XY; (...); Xu, B
DEC 2021 | CELL REPORTS: PHYSICAL SCIENCE
- 7 Revisiting Mitochondria Scored Cancer Progression and Metastasis
Gundamaraju, R; Lu, WY and Manikam, R
FEB 2021 | CANCERS
- 8 Mitochondria in cancer
Grasso, D; Zampieri, LX; (...); Someaux, P
JUNE 2020 | CELL STRESS

I retrieved a large volume of documents based on your query. Consider providing additional results. Click the link below to view the additional documents relevant to this response.

[View additional documents relevant to this response](#)

What would you like to see next?

- 🔗 See related and connected concepts
Topic Map
- 📊 Documents over time graph for mitochondrial biology
See patterns in publishing on this topic

我想了解关于线粒体在癌症中的重要论文

What are the latest research findings on mitochondria?

最新研究发现线索表明线粒体对癌细胞的影响如何？

氣候變遷如何影響生物多樣性？ RG

這些結果是如何產生的？

概述

氣候變化對生物多樣性的影響是多方面的，涉及「物種多樣性和生態系統功能的變化」、「人為因素的角色」以及「生態修復的重要性」。這些主題闡明了氣候變化與人類活動如何威脅生物多樣性和生態系統服務，同時強調了需要有效的修復策略來減輕這些影響。

物種多樣性和生態系統功能的變化：

- 氣候變化導致生物多樣性和生態系統提供的生態服務發生重大變化，特別是在海洋和河口環境中。
- 在北極，氣候變暖導致關鍵物種（如有領地的旅鼠）的遺傳多樣性下降，這對維持生態系統過程至關重要。
- 氣候變化的變異性已被證明會影響植物群落的動態，影響其建立和持續性，這對維持生物多樣性至關重要。

人為因素的角色：

- 人為影響，如棲息地改變和污染，已加劇氣候變化對生物多樣性的影響，導致物種和生態系統功能的重大損失。
- 在喜馬拉雅山脈的印度庫什地區，快速的氣候變暖和經濟轉型威脅到生物多樣性和生態系統服務，迫切需要採取行動來應對這些挑戰。
- 由人類活動驅動的富營養化已被證明在某些水生生態系統中對生物多樣性的影響比氣候波動更為明顯。

生態修復的重要性：

- 有效的生態修復對於在氣候變化前維持生物多樣性至關重要，這需要理解環境變化的複雜歷史。
- 增強物種之間反應多樣性的策略可以提高生態系統對氣候變化的韌性，從而支持如害蟲控制等生態系統服務。
- 整合科學知識和社會努力的韌性管理框架對於應對生物多樣性損失和增強生態系統服務至關重要。

結論

總之，氣候變化通過物種多樣性和生態系統功能的變化顯著影響生物多樣性，並受到人為因素的加劇。通過有效的生態修復和管理策略來應對這些挑戰對於保護生物多樣性和維持在變化氣候中的生態系統服務至關重要。

👍 🗨️ 📄 複製文字

我已利用其中 8 篇文獻的資訊與摘要，為您解答問題並向您介紹相關研究成果。您可以按一下回覆中的參考文獻來檢視更多有關這些文獻的資訊。若要檢視完整的結果，請按一下清單末尾的「檢視與此回覆相關的其他文獻」。

檢視 8 份參考文獻

- 1 Vulnerability of global biodiversity hotspots to climate change
Trew, BT and Maclean, IMD
APR 2021 | GLOBAL ECOLOGY AND BIOGEOGRAPHY
147 引用文獻
共同引用文獻
依照分類圖表引用項目
- 2 Classification of Climate-Change-Induced Stresses on Biological Diversity
Geyer, J; Kiefer, I; (...); Ibsch, PL
AUG 2011 | CONSERVATION BIOLOGY
35 引用文獻
共同引用文獻
依照分類圖表引用項目
- 3 The pace of biodiversity change in a warming world
Sunday, JM
APR 2020 | NATURE
18 引用文獻
共同引用文獻
依照分類圖表引用項目
- 4 Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being
Pech, GT; Araújo, MB; (...); Williams, SE
MAR 31 2017 | SCIENCE
2,314 引用文獻
共同引用文獻
依照分類圖表引用項目

Enter your chat input here

Grasp core concepts faster

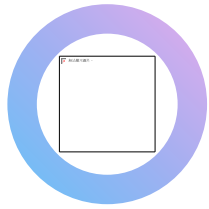
- ✓ Responses are referenced.
- ✓ Click on a reference title to view the abstract side-by-side with the response, making it easier to verify and understand how it was generated.

The screenshot shows the Clarivate Web of Science interface. On the left is a 'Chat history' sidebar with a 'New chat' button and a list of chat messages categorized by date (Today, August, July, June, Before June 2024, 2023). The main chat window shows a message from the user: 'Climate change can lead to the transformation and unsustainable use of natural resources, along with loss, with climate change projected to exacerbate address the interactions between climate change [2]. Biodiversity conservation should focus on the proposing the concept of biodiversity arks to shelt Incorporating climate change into biodiversity ma providing guidance on where and how managem the impacts of climate change on biodiversity is es environmental and societal objectives.' Below the message are icons for thumbs up/down and a 'Copy text' button. A section titled 'View 8 referenced documents' lists several papers, with the first one highlighted: 'Water provisioning improvement through payment for ecosystem services' by Sone, JS; Gesualdo, GC; (...); Oliveira, PTS, published in SCIENCE OF THE TOTAL ENVIRONMENT in March 2020.

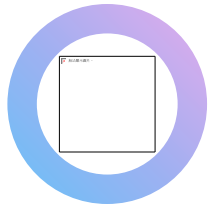
The screenshot shows the document details page for 'Water provisioning improvement through payment for ecosystem services'. It includes a back arrow, the title, a 'Highly Cited' badge, and buttons for 'View full record' and 'Save'. The 'Authors' section lists 'Sone, JS; Gesualdo, GC, (...)Olivia, PTS'. The 'Journal' section lists 'SCIENCE OF THE TOTAL ENVIRONMENT', 'Volume655Page1197-1206', and '10.1016/j.scitotenv.2018.11.319'. The 'Abstract' section contains the text: 'We assess whether a Payments for Ecosystem Services (PES) programme met its objectives of reducing soil erosion and yielding water in an environmental protected area, the Guarairoba River Basin, Midwestern Brazil. We measured rainfall and water discharge throughout 2012 and 2016. During the same period, soil and water conservation practices were performed in the basin, such as: building level terraces and riparian vegetation recovery. We separated streamflow into baseflow and direct runoff, then we evaluated the baseflow index that indicated that groundwater significantly contributes to total flow. Therefore, to investigate the effects on streamflow, we performed a trend analysis in the baseflow time series using the Mann-Kendall test. In addition, we analysed the efficiency of soil erosion regulation practices over time, considering the total payment and the trends found in the baseflow. Whereas precipitation records present a decreasing trend (1 mm month⁻¹), baseflow tends to increase by 0.018 m(3) s⁻¹ in the same period. Our findings show that soil conservation practices performed in the basin increase baseflow and also provide a better resilience to endure extreme events such as drought based on an increase in forest areas and soil conservation practices such as level terrace. (C) 2018 Elsevier B.V. All rights reserved.' Below the abstract is a 'Citation network' section showing '43 Citations', '44 Times Cited in All Databases', and '54 Cited References'. At the bottom, there are two options to 'Learn more about this document': 'See related documents Co-citation map' and 'How this document has been mentioned Citing items by classification chart'.



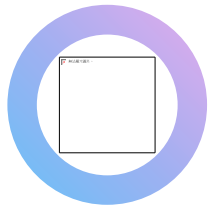
Uncover meaningful connections with dynamic visualizations



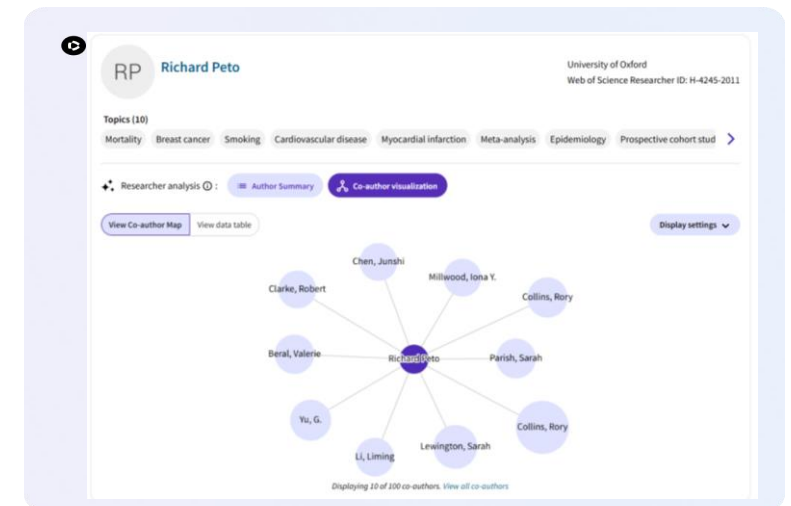
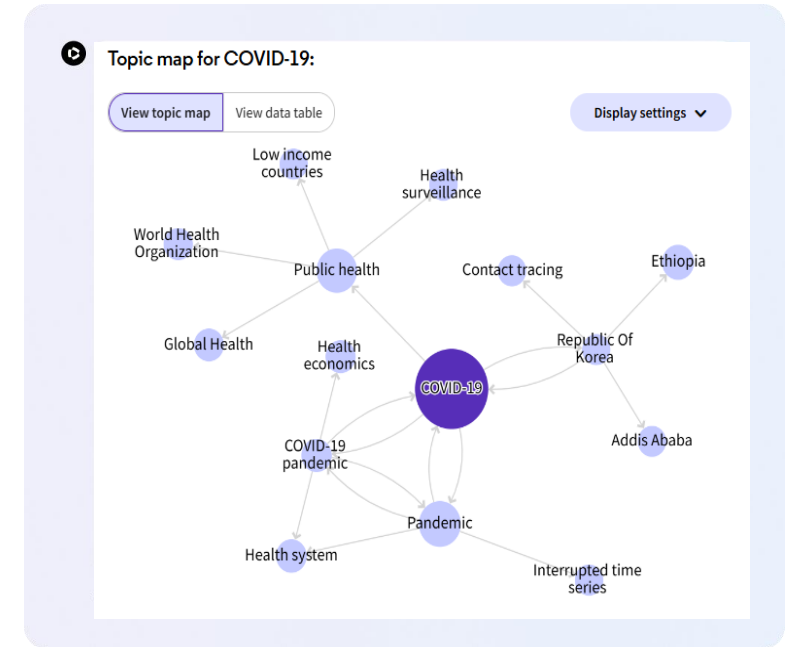
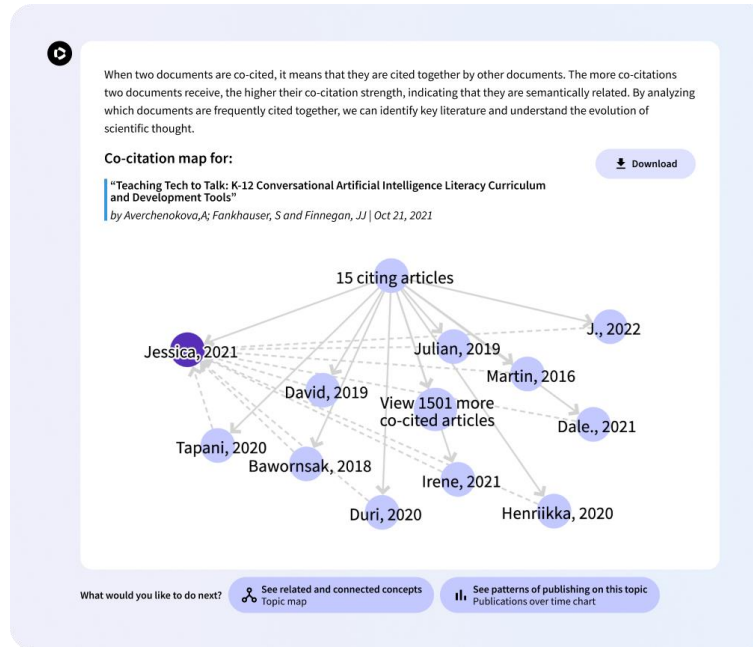
Explore related topics to narrow or expand your search.



Identify trends in a field to help define your research direction.



Generate networks to visualize connections between people and papers.



Macro to Micro Perspectives with AI-Powered Insights

Web of Science™

Smart Search

Advanced Search

✦ Research Assistant

Renee Guan ▾

MENU

History

Hi, Renee.

What are you researching today?

Auto ▾

Web of Science Core Collection

In-depth
Topic
Exploration

Journal Matching



Ask a research question

Find relevant papers, get concise overviews and perform deep citation analysis.

Broad General and Specific Questions



Explore a topic

Explore topics, identify related subtopics, and visualize trends.

In-depth
Topic
Exploration



Create a Literature Revi...

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

Literature Review, Identifying Hotspots, Research Gaps



Find a Journal

Match your manuscript or topic to relevant, trusted journals.

Journal Matching

Providing Verifiable References and Assisting Researchers in Identifying Relevant Topics

Structured Summaries

✍ 我想要研究SDG 13相關的主題 RG

How are these results generated? ▾

Using your query, I searched the Web of Science Core Collection for documents with topic "(climate change OR global warming OR climate variation OR climatic changes OR climate variability OR climate crisis OR climate emergency OR greenhouse gases OR anthropogenic climate change OR carbon emissions)" and found 1,150,560 results.

I have used the document information and abstracts from 25 of these to answer your query and introduce you to the relevant research. You can view more about the documents by clicking the references in the response. To view the full set of results, click on 'View all results in Web of Science Core Collection' at the end of the list.

概述：

本研究文獻的主要主題包括「氣候變化的語言選擇」、「人為因素對氣候系統的影響」和「氣候變化對生態系統的影響」。這些主題探討了氣候變化的溝通方式、氣候系統的變化及其對環境的影響，並強調了人類活動在這些過程中的重要性。

氣候變化的語言選擇：

- 氣候變化相關的詞彙選擇對於科學家、記者和政策制定者之間的有效溝通至關重要，可能導致誤解¹。
- 在英國的報紙中，“氣候變化”和“全球變暖”的使用模式顯示出這兩者在應用上並不可以互換¹。
- 本研究提供了對氣候變化詞彙使用模式的實證評估，促使相關人員反思未來的詞彙選擇¹。

人為因素對氣候系統的影響：

- 人為因素如溫室氣體排放對全球碳循環的影響顯著，並可能加劇氣候變化的影響²。
- 研究顯示，隨著氣候變暖，ENSO（厄爾尼諾/南方震盪）與碳循環的耦合將增強，這可能導致未來的碳氣候互動加劇²。
- 在不同的氣候模型中，對於氣候變化的敏感性存在顯著差異，這影響了未來氣候預測的準確性⁶。

氣候變化對生態系統的影響：

- 氣候變化對水文循環的影響顯著，導致全球和大陸的徑流增加，並與全球氣溫上升存在一致的相關性⁵。
- 研究指出，氣候變化對農業和生態系統的影響在不同地區存在顯著差異，特別是在亞熱帶和熱帶地區¹²。
- 隨著氣候變化的加劇，海洋生態系統面臨著前所未有的挑戰，包括生物多樣性的喪失和生態系統功能的改變¹⁵。

結論：

Verifiable

25 referenced documents:

1 Does "climate change" equal "global warming"? A corpus-based study of lexical choices related to climate change in three UK newspapers from 2018 to 2025
Lam, YM and Lam, BSY
NOV 27 2025 | HUMANITIES & SOCIAL SCIENCES COMMUNICATIONS ▾

CITATION NETWORK

0 Citations 85 References

2 Intensification of terrestrial carbon cycle related to El Nino-Southern Oscillation under greenhouse warming
Kim, JS; Kug, JS and Jeong, SJ
NOV 22 2017 | NATURE COMMUNICATIONS ▾

CITATION NETWORK

51 Citations 61 References

Co-citation map Citing items by classification chart

3 Allowable CO₂ emissions based on regional and impact-related climate targets
Seneviratne, SI; Donat, MG; (...) Wilby, RL
JAN 28 2016 | NATURE ▾

CITATION NETWORK

585 Citations 59 References

Co-citation map Citing items by classification chart

4 Tropical Indian Ocean drives Hadley circulation change in a warming climate
Sun, Y; Ramstein, G; (...) Liu, B
JAN 6 2025 | NATIONAL SCIENCE REVIEW ▾

CITATION NETWORK

2 Citations 57 References

Co-citation map Citing items by classification chart

5 Impacts and risks of "realistic" global warming projections for the 21st century
Scafetta, N
MAR 2024 | GEOSCIENCE FRONTIERS ▾

CITATION NETWORK

57 Citations 136 References

Co-citation map

Explore More Literatures

View all results in Web of Science Core Collection → View related preprints →

Understand Citation Purposes and Related Literature through References

In-depth Exploration and Data Visualization

3 Allowable CO₂ emissions based on regional and impact-related climate targets

Seneviratne, SI; Donat, MG; (...); Wilby, RL
 JAN 28 2016 | NATURE ▾

CITATION NETWORK
 585 Citations 59 References

Co-citation map Citing items by classification chart

When two documents are co-cited, it means they are frequently cited together by other documents. I reviewed all 585 documents that cited "Allowable CO₂ emissions based on regional and impact-related climate targets" and collected a total of 34,120 which are the most frequently cited among these 34,120 co-cited documents.

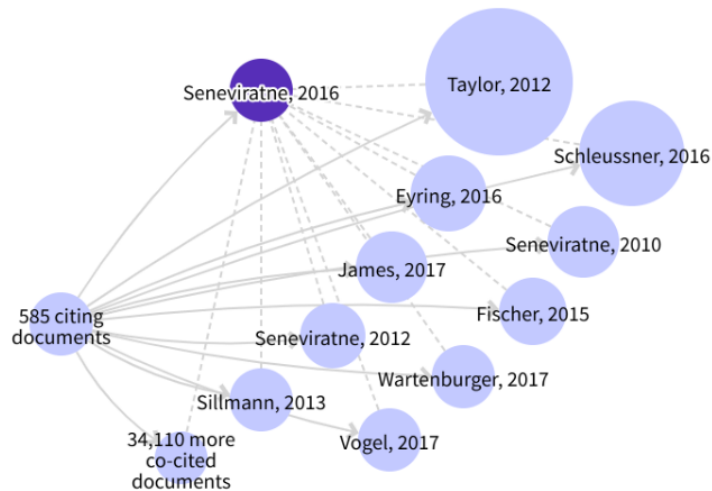
Co-citation map for:

Allowable CO₂ emissions based on regional and impact-related climate targets
 by Seneviratne, SI; Donat, MG; (...); Wilby, RL | JAN 28 2016

Discover Highly Relevant Literature

View co-citation map View data table

Display settings ▾



Breakdown of how this article has been mentioned, based on available citation context data and snippets from 585 citing item(s)


Citing items by classification chart:

"Allowable CO₂ emissions based on regional and impact-related climate targets"
 by Seneviratne, SI; Donat, MG; (...); Wilby, RL | JAN 28 2016

Understand Citation Purpose



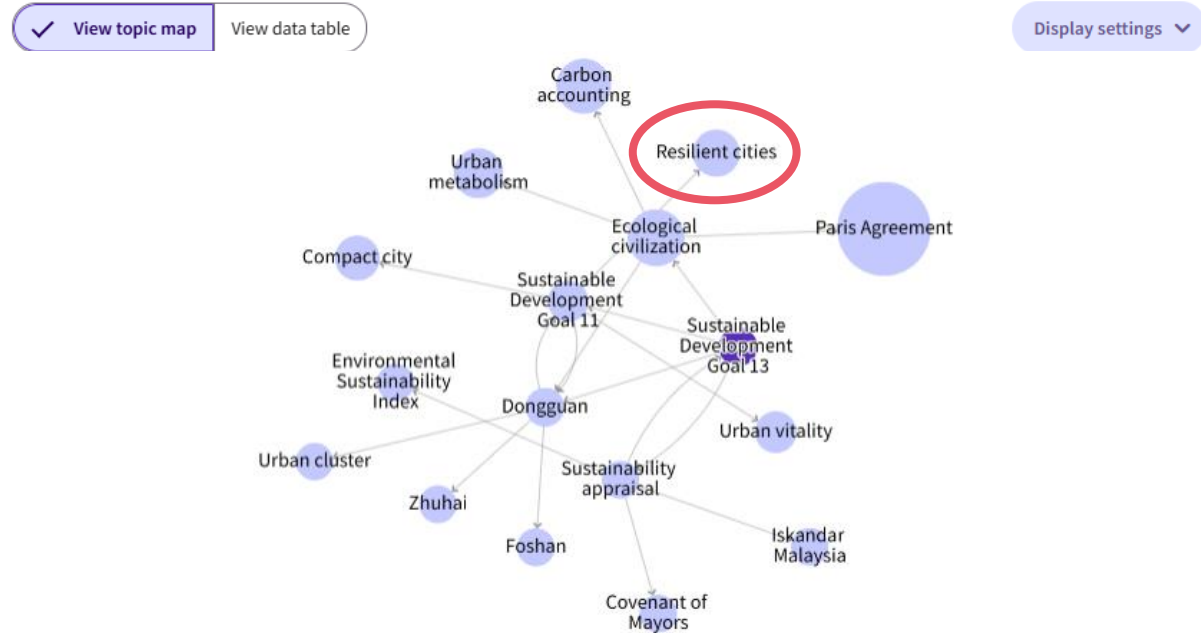
Extensive Topic and Expert Discovery through WOS RA

 **Topic Map**
See related and connected concepts

Topic maps can help you see the big picture, explore more specific topics and learn terminology in a field.

This topic map shows the relationship between topics, determined by documents covering the same topics. The size of the bubble indicates how many documents are on this topic while the arrows show which topics reference each other.

Topic map for Sustainable Development Goal 13:



 **Top authors**
See key influencers on this topic

Kirton, John J. ✓
University of Toronto
TORONTO, ON, CANADA

計量 1978-2023
148 11 509
出版品 H-Index 次引用

作者摘要 最新的出版品 大部分引用文獻的出版品 共同作者視覺效果

Kirton, John J. ✓
(Kirton, John J.)

John Kirton

John Kirton is director of the G20 Research Group, G7 Research Group and the Global Health Diplomacy Program and co-director of the BRICS Research Group, all based at Trinity College at the Munk School of Global Affairs and Public Policy in the University of Toronto, where he is a professor of political science. He is also a visiting professor of the School of International Relations and Public Affairs of the Shanghai International Studies University and co-author, with Ella Kokotsis, of The Global Governance of Climate Change G7, G20 and UN Leadership.

The research impact extends beyond academia, influencing policy discussions and contributing to the understanding of international cooperation mechanisms. Kirton's collaborations with other scholars and institutions, such as the Munk Centre for International Studies and the University of the West Indies, highlight engagement with a broader academic and policy community. The work on the policy influence of Canadian foreign policy scholars and the implications of globalization for G20 governance further underscores a commitment to exploring the practical applications of research in addressing contemporary global issues.

Explore a topic

Guided Tasks: Your Shortcut to AI Conversations

The screenshot shows the Web of Science Research Assistant interface. At the top, there are navigation tabs for 'Smart Search', 'Advanced Search', and 'Research Assistant' (which is selected). The user's name 'Renee Guan' is in the top right. A sidebar on the left contains icons for 'MENU', 'History', and other functions. The main area features a large search bar with the placeholder text 'What are you researching today?' and a search button. Below the search bar are three main task cards: 'Ask a research question', 'Explore a topic' (highlighted with a red border), and 'Find a Journal'. The 'Explore a topic' card is expanded to show a list of sub-tasks: 'Identify key topics', 'List top authors', 'Find leading institutions', and 'Create a visual'.

Web of Science™ Smart Search Advanced Search **Research Assistant** Renee Guan

MENU History

Hi, Renee.

What are you researching today?

Auto

Web of Science Core Collection

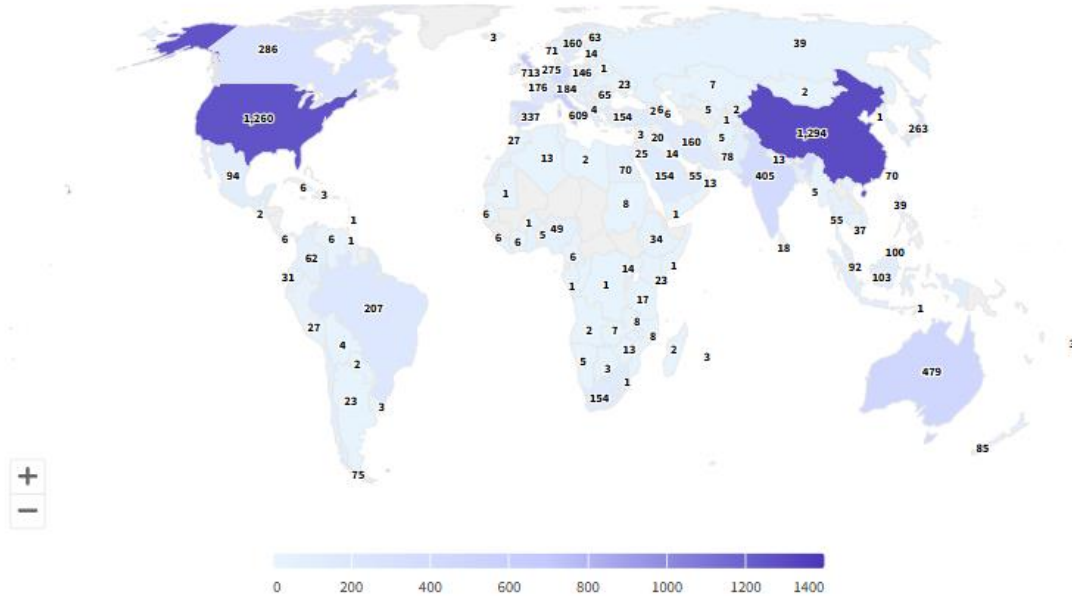
- Ask a research question**
Find relevant papers, get concise overviews and perform deep citation analysis.
- Explore a topic**
Explore topics, identify related subtopics, and visualize trends.
 - Identify key topics
 - List top authors
 - Find leading institutions
 - Create a visual
- Find a Journal**
Match your manuscript or topic to relevant, trusted journals.

Topic Explorer

Explore topics, identify related subtopics, and visualize trends.

Country/region geographic map:

Display settings ▾



Here is a geographic map visualization showing the top countries contributing to "Resilient City" research. The leading countries are China, the United States, and the United Kingdom, followed by Italy, Australia, India, Germany, Spain, Canada, and the Netherlands. This distribution highlights the global engagement in resilient city research, with a strong presence in Asia, North America, and Europe, reflecting diverse urban contexts and challenges.

Would you like to explore more, such as top institutions, trends in publications over time, or perhaps review articles and leading authors in this field? Let me know how you'd like to proceed!

Visualization with
Summary

Leveraging Agentic AI for Deeper Summaries and Explanations

I want to know the key research directions for each country and also include Hong Kong

RG

Certainly! Based on Web of Science literature, here are the key research directions for each of the top countries in resilient city research, including Hong Kong:

China (including Hong Kong SAR)

- Research in China focuses heavily on climate-resilient city policies, urban disaster risk reduction, green urban development, infrastructure adaptation, and ecological resilience. There is a strong emphasis on empirical evaluation of pilot projects, systematic governance frameworks, and the health impacts of climate-resilient urban planning. Hong Kong, as part of China, contributes to studies on smart city technologies, urban mobility, and governance models adapted to dense, high-rise urban environments.
 - WoS Source Example: "The effect of pilot climate-resilient city policies on urban climate resilience" (WOS:001285954100001), "Smart city and resilient city: Differences and connections" (WOS:000564560000001)

United States

- US research directions include disaster management, resilient urban infrastructure, community resilience, sustainable urban planning, and the integration of technology in smart cities. There is substantial work on policy frameworks, social equity, climate adaptation, and participatory governance in urban resilience.
 - WoS Source Example: "The right to the resilient city: progressive politics and the green growth machine in New York City" (WOS:000538865100013)

United Kingdom

- UK scholarship emphasizes governance, urban sustainability, climate adaptation, resilient infrastructure, and the role of technological innovation. There are notable studies on biophilic urban planning, policy integration, and nature-based solutions for resilience.
 - WoS Source Example: "The Role of Biophilic Agents in Building a Green Resilient City; the Case of Birmingham, UK" (WOS:000650868500001)

Italy

- Italian research is characterized by sustainable infrastructure solutions, urban regeneration, underground space utilization, and resilience in the context of historic and dense urban areas. There's also a focus on case studies addressing local challenges and

Topic Explorer

Explore topics, identify related subtopics, and visualize trends.

Recommend Articles

Can you help list 5 review articles that are highly relevant to resilient cities? RG

Here are 5 review articles highly relevant to resilient cities, selected from the Web of Science Core Collection:

- **Urban futures: Systemic or system changing interventions? A literature review using Meadows' leverage points as analytical framework** (Angheloiu & Tennant, 2020, WOS:000541151900014).

This article qualitatively assesses the types of interventions advocated in urban sustainability, transformation, and resilience literature, categorizing them with Meadows' leverage points and highlighting the importance of process and outcome integration for systemic urban change.

- **A review of nature-based infrastructures and their effectiveness for urban flood risk mitigation** (Esrzaz-Ul-Zannat et al., 2024, WOS:001214913000001).

This review systematically compares the effectiveness of nature-based solutions and traditional gray infrastructure for urban flood mitigation, discussing their benefits, limitations, and implementation challenges for resilient cities.

Urban storm WOS:000745

The authors critically review the authors' critical and society in storm

Resilient cities

This meta-research simulation method

Redefining:

A review of nature-based infrastructures and their effectiveness for urban flood risk mitigation

Highly Cited Early Access Review Article

View full record Save

Authors: Esrzaz-Ul-Zannat, M; Dedekorkut-Howes, A and Morgan, EA

Published: SEP 2024

Journal: WILEY INTERDISCIPLINARY REVIEWS-CLIMATE CHANGE, Volume: 15, Issue: 5, 10.1002/wcc.889

Abstract
Anthropogenic climate change and rapid urbanization are contributing to more frequent and intense urban flooding. There is widespread agreement that traditional gray infrastructure, a single-purpose solution, fails to address the problem properly and contributes to adverse direct and indirect environmental impacts. As such, Nature-based Solutions (NbS) can provide improved outcomes to flood risk management along with co-benefits to society and the economy, as they have numerous benefits including often a smaller carbon footprint or even sometimes sequestering carbon. However, there is ambiguity and misconception about NbS and the uptake of NbS for flood management, which is still inadequate compared to traditional gray infrastructure. This research seeks to explore various nature-based infrastructures including their present status of application for flood risk management to build resilience to urban flooding through a systematic literature review. The robustness of some NbS is questionable and varies across different spatial scales from plot to watershed. NbS can work stand-alone in many cases as well as supplement traditional gray infrastructure to achieve wider benefits. The review provides a comparison of nature-based solutions with gray infrastructure, identifies flood mitigation infrastructures that include nature-based elements, and provides an overview of their effectiveness across different scales. The research findings should contribute to a better understanding of appropriate and diverse options of NbS, gray, and hybrid designs by policymakers and decision-makers to enable them in effectively designing and implementing urban flood risk mitigation measures. This article is categorized under: Climate and Development > Urbanization, Development, and Climate Change > Vulnerability and Adaptation to Climate Change > Learning from Cases and Analogies

Recommend Journals

Can you recommend the most relevant journals? RG

Based on the review articles and highly cited research on resilient cities in the Web of Science Core Collection, the most relevant journals publishing in this field are:

- **Cities**

A leading journal focusing on urban planning, development, sustainability, resilience, and governance in cities worldwide. It publishes research on interventions, policy analysis, and case studies relevant to resilient urban futures. (e.g., WOS:000541151900014)

- **Sustainable and Resilient Infrastructure**

This journal covers the design, management, and performance of sustainable and resilient infrastructure in urban environments, with a strong focus on system interdependence and urban adaptation. (e.g., WOS:001123836700003)

- **Wiley Interdisciplinary Reviews: Climate Change**

Publishes interdisciplinary reviews on climate change impacts, adaptation, and mitigation, including topics such as nature-based solutions and urban flood risk relevant to resilient city research. (e.g., WOS:001214913000001)

- **Water Science and Technology**

Features research on urban water management, stormwater systems, and sustainable solutions for urban resilience and adaptation to environmental stresses. (e.g., WOS:000745928000001)

Understanding for interdisciplinary research

Any cross field research on this topic? RG

Yes, resilient city research in the Web of Science Core Collection is highly interdisciplinary and features substantial cross-field work. The following are major examples of cross-field research directions identified in the literature:

1. Urban Planning + Climate Science + Public Health

Research often integrates urban planning with climate adaptation and public health, examining how resilient city policies affect health outcomes, environmental quality, and urban infrastructure under climate-related stressors. For example, studies assess how climate-resilient urban design improves air quality and thermal comfort, and reduces vulnerability to pandemics and extreme weather. (WOS:001285954100001, WOS:001342380000001)

2. Engineering + Social Sciences + Governance

Many works analyze the interdependence of critical infrastructure systems (transport, water, energy) with social equity and adaptive governance frameworks, emphasizing participatory planning, risk management, and community resilience. Simulation modeling and systems theory are used to understand how technical and societal factors shape city resilience. (WOS:001123836700003, WOS:001526458200001)

3. Technology + Sustainability + Economics

Smart city research in resilience frequently connects digital technologies (IoT, AI, big data) with sustainable urban management,

Create a Literature Review

Guided Tasks: Your Shortcut to AI Conversations

The screenshot displays the Web of Science Research Assistant interface. At the top, the navigation bar includes 'Web of Science™', 'Smart Search', 'Advanced Search', and 'Research Assistant' (which is underlined). A user profile for 'Renee Guan' is visible in the top right. On the left, a vertical menu contains icons for 'MENU', a document, a refresh, a person, and a bell. A 'History' button is located in the top left of the main content area. The main heading reads 'Hi, Renee.' Below this is a search bar with the placeholder text 'What are you researching today?'. The search bar includes an 'Auto' filter dropdown and a 'Web of Science Core Collection' button with an upward arrow. The main content area features three task cards: 'Ask a research question', 'Explore a topic', and 'Create a Literature Review...'. The 'Create a Literature Review...' card is highlighted with a red border. To the right of these cards is a vertical sidebar with four buttons: 'Create detailed literature review', 'Identify research gaps', 'Find trending topics', and 'Formulate hypothesis'.

Web of Science™ Smart Search Advanced Search Research Assistant Renee Guan

MENU

History

Hi, Renee.

What are you researching today?

Auto

Web of Science Core Collection

- Ask a research question**
Find relevant papers, get concise overviews and perform deep citation analysis.
- Explore a topic**
Explore topics, identify related subtopics, and visualize trends.
- Create a Literature Review...**
Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

- Create detailed literature review
- Identify research gaps
- Find trending topics
- Formulate hypothesis

Solving literature review challenges for researchers with an AI agent

- ✓ Clarify your research question and develop the best search strategy with the agent's help
- ✓ Synthesize the literature efficiently and factor in your specific project needs
- ✓ Identify knowledge gaps to pursue topics that need further exploration
- ✓ Locate research hotspots and stay up to date on a field
- ✓ Formulate hypotheses that consider gaps and trends in the literature





Literature Review

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

Start your literature review

◆◆ Tell the Research Assistant about the topic or task for your literature review



☰ Create detailed literature review

↔ Identify research gaps

📄 Find hotspots

➔ Formulate hypothesis



Create a detailed literature review about I aim to conduct research on resilient cities, with a particular focus on urban infrastructure and planning for flood risk management.

RG



To create a comprehensive literature review on resilient cities with a focus on urban infrastructure and planning for flood risk management, we need to refine the scope of your query. Let's break it down into subtopics and identify key themes. Here are some subtopics you might consider:

1. **Definitions and Concepts of Resilient Cities:** Understanding the foundational concepts.
2. **Urban Infrastructure and Its Role in Resilience:** How infrastructure contributes to city resilience.
3. **Flood Risk Management Strategies:** Specific strategies for managing flood risks in urban areas.
4. **Planning and Policy Frameworks:** Governance and policy considerations in planning for resilience.
5. **Case Studies of Resilient Cities:** Examples of cities that have successfully implemented resilience strategies.

Do these subtopics align with your research interests, or is there anything you would like to adjust or add?

Helping you identify the scope

Literature Review

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

Input YOUR ideas.

I like 2.3.5 but can we add some topics related the climate change?

Certainly! Here is an updated list of subtopics that includes aspects related to climate change:

- Urban Infrastructure and Its Role in Resilience:** Exploring how infrastructure contributes to the resilience of cities, particularly in the context of extreme weather events.
- Flood Risk Management Strategies:** Examining specific strategies and technologies used to manage and mitigate flood risks in urban environments.
- Impact of Climate Change on Urban Flooding:** Understanding how climate change alters flood risks and impacts urban resilience.
- Climate Adaptation in Urban Planning:** How urban planning is evolving to incorporate climate change adaptation strategies.
- Case Studies of Resilient Cities:** Analyzing examples of cities that have successfully implemented resilience strategies, with a focus on climate change adaptation and flood management.

Does this revised structure align with your focus, or would you like to modify any of these subtopics?

More chats to define your goals and search criteria

give last 10 years

Great! We'll focus on articles published in the last 10 years to ensure that the literature review reflects the most current research. Here's how the search strategy will look with the time restriction:

- Urban Infrastructure and Resilience:** "urban infrastructure" AND "resilience" AND ("extreme weather" OR "climate change") (dated 2016 to 2026)
- Flood Risk Management Strategies:** "flood risk management" AND "urban" AND ("strategies" OR "technologies") (dated 2016 to 2026)
- Impact of Climate Change on Urban Flooding:** "climate change" AND ("urban flooding" OR "flood risk") (dated 2016 to 2026)
- Climate Adaptation in Urban Planning:** "urban planning" AND ("climate adaptation" OR "climate resilience") (dated 2016 to 2026)
- Case Studies of Resilient Cities:** "resilient cities" AND ("case study" OR "examples") AND "flood management" (dated 2016 to 2026)

Does this revised search strategy meet your requirements? If so, I'll proceed with the search using these criteria.

Confirming Search Query

will you combine all or search by each? if you will combine all, let me review your final query

For a comprehensive search, I will combine these themes into a single query to retrieve articles that might touch on multiple aspects of resilient cities, urban infrastructure, and climate change. Here is the combined search query for your review:

```
("urban infrastructure" AND "resilience" AND ("extreme weather" OR "climate change") OR "flood risk management" AND "urban" AND ("strategies" OR "technologies") OR "climate change" AND ("urban flooding" OR "flood risk") OR "urban planning" AND ("climate adaptation" OR "climate resilience") OR "resilient cities" AND ("case study" OR "examples") AND "flood management") (dated 2016 to 2026)
```

Please let me know if this combined query aligns with your expectations or if there are any further adjustments you would like to make before I proceed with the search.

Please replace "AND" with "OR" and delete ("case study" OR "examples").

Here is the revised search query with your requested changes:

```
("urban infrastructure" OR "resilience" OR "extreme weather" OR "climate change" OR "flood risk management" OR "urban" OR "strategies" OR "technologies" OR "climate change" OR "urban flooding" OR "flood risk" OR "urban planning" OR "climate adaptation" OR "climate resilience" OR "resilient cities" OR "flood management") (dated 2016 to 2026)
```

Please review this query and let me know if it meets your requirements. If everything looks good, I will proceed with the search.

OK. go

We found a total of 5,537,725 articles on Web of Science related to your query about resilient cities, urban infrastructure, and flood risk management. For the purpose of your literature review, we'll need to narrow this down.

Would you like to proceed with the default 25 articles, or would you prefer to use up to 50 articles for a more comprehensive review? Please let me know your preference.

Literature Review

Synthesize the literature, uncover research gaps and hotspots, and formulate hypotheses.

I apologize for the oversight. Normally, I should have asked you to confirm the desired output format for the literature review. For future reference, here are the typical output options I can provide:

- Literature Review:** Includes Introduction, Common Themes/Key Findings across articles, Gaps in Research, Conclusion, Potential Hypotheses, and Referenced Documents.
- Research Gaps:** Focus on identifying four themes/gaps with a summary.
- Research Hotspots:** List of 10 hotspots and corresponding citations.
- Hypothesis Formulation:** Five potential hypotheses with supporting documents.

Format

Since I've already provided a literature review, please let me know if you need the information in a different format or if there's anything else you'd like to adjust or add.

I would like to add a comparison of research methodologies, presented in a table, and include an additional section on Hong Kong's development and research in this area.

RG

Certainly! Here's the agenda for the revised literature review on resilient cities, focusing on urban infrastructure and planning for flood risk management, along with the additional sections you requested:

- Introduction**
 - Overview of the significance of resilient cities in the context of climate change and urban flooding.
- Common Themes/Key Findings**
 - Role of Green Infrastructure
 - Integration of Technologies and Modelling
- Comparison of Research Methodologies**
 - Table summarizing different methodologies used in the studies reviewed.
- Hong Kong's Development and Research**
 - Overview of Hong Kong's approach to integrated flood risk management and policy efforts.
- Gaps in Research**
 - Limited Geographical Representation
 - Integration of Social and Technical Aspects
- Conclusion**
 - Summary of key strategies for enhancing urban resilience.
- Potential Hypotheses**
 - Formulation of hypotheses based on the literature.
- Referenced Documents**
 - Comprehensive list of all articles used in the review.

Customize and refine the literature review outline and output format

To incorporate a comparison of research methodologies and a section focused on Hong Kong's development and research in urban resilience and flood risk management, I will revise the literature review accordingly. Let's start with the comparison of research methodologies and the Hong Kong section.

Literature Review

Introduction

Introduction

The concept of resilient cities, particularly in the context of urban infrastructure and flood risk management, has become increasingly critical as climate change exacerbates extreme weather events. This review examines recent literature, focusing on strategies to enhance urban resilience through infrastructure planning and flood risk management.

Common Themes/Key Findings

Key findings

- Role of Green Infrastructure:** Green infrastructure is vital for urban resilience against climate risks, offering benefits like mitigating urban heat islands and enhancing ecosystem resilience [Kadic et al., 2025].
- Integration of Technologies and Modelling:** Advanced methodologies such as Watershed-BIM and GIS-integrated frameworks enhance flood resilience planning by improving prediction accuracy [Tsikas et al., 2025].

Comparison of Research Methodologies

The table below summarizes different methodologies used in the studies reviewed:

Study	Methodology	Key Features
Tsikas et al., 2025	Watershed-BIM	Integration of BIM, GIS, and flood risk management tools for urban flood resilience.
Idowu et al., 2023	Correlation Analysis	Examines urban expansion patterns and their correlation with flood hazards.
Nwogu et al., 2025	GIS-Integrated Framework	Combines GIS with multi-criteria decision analysis for flood risk management.
Herath et al., 2020	Evolutionary Resilience	Reframes flood risk management as an integrated and adaptive system.

Hong Kong's Development and Research

Hong Kong, as a coastal megacity, faces significant challenges related to urban flooding exacerbated by climate change. Research in the region has focused on integrated flood risk management approaches that combine traditional engineering solutions with socio-economic considerations. Notable development includes:

Gaps in Research

Research Gap

- Limited Geographical Representation:** Research is predominantly focused on coastal areas, with limited studies from areas like Africa and West Asia [Ro et al., 2025].
- Integration of Social and Technical Aspects:** Greater emphasis on socio-economic factors and traditional flood management models is needed to effectively address urban resilience [Chen et al., 2024].

Conclusion

A multifaceted approach combining green infrastructure, advanced modeling techniques, and comprehensive policy frameworks is

Potential Hypotheses

Potential Hypotheses

- The integration of green infrastructure with traditional flood management strategies significantly enhances urban resilience.
- Urban expansion patterns, particularly edge expansion, are strongly correlated with increased flood risk.
- Advanced modeling frameworks improve flood prediction accuracy and urban planning efficiency.

Referenced Documents

- Kadic et al., 2025

Find a Journal

Guided Tasks: Your Shortcut to AI Conversations

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Web of Science™ Smart Search Advanced Search Research Assistant Renee Guan

MENU

History

Hi, Renee.

What are you researching today?

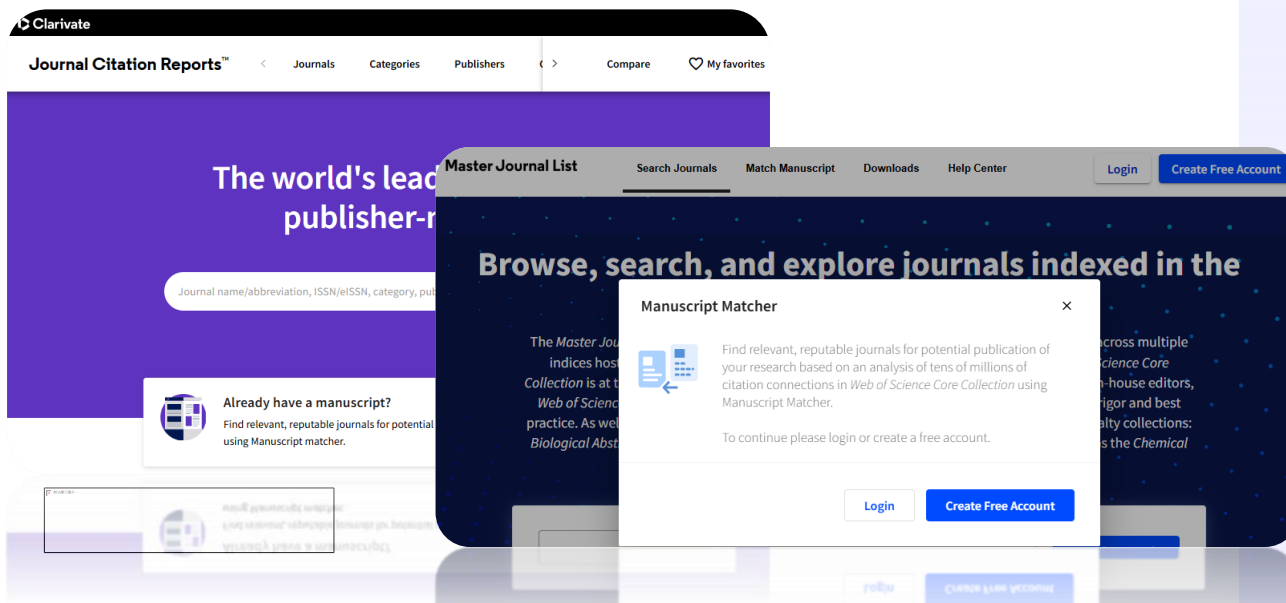
Auto

Web of Science Core Collection

- Ask a research question
Find relevant papers, get concise overviews and perform deep citation analysis.
- Explore a topic
Explore topics, identify related subtopics, and visualize trends.
- Suggest best-fit journals
- Find topic-relevant journals
- Discover similar-topic authors
- Show documents in journals
- Find a Journal**
Match your manuscript or topic to relevant, trusted journals.

AI-Assisted Journal Search & Matching

- Match manuscripts with relevant journals using intelligent content analysis.
- Explore journal options by topic when manuscript information is insufficient.
- Filter journals by publication criteria to identify target journals that meet specific requirements.



SUSTAINABILITY

OPEN ACCESS

MDPI

SWITZERLAND

2071-1050 / 2071-1050

Semi-monthly

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Journal Impact
Factor™

0.67
Journal Citation
Indicator™

Web of Science Core Collection Science Citation Index Expanded | Social Sciences Citation Index

Additional Indexes Current Contents Agriculture, Biology & Environmental Sciences | Current Contents Social And Behavioral Sciences | Essential Science Indicators

LAND USE POLICY

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ELSEVIER SCI LTD

ENGLAND

0264-8377 / 1873-5754

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Factor™

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Journal Citation
Indicator™

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WORLD DEVELOPMENT

OPEN ACCESS

WATER RESOURCES RESEARCH

OPEN ACCESS

AMER GEOPHYSICAL UNION

UNITED STATES OF AMERICA

0043-1397 / 1944-7973

Article-by-article

JOURNAL CITATION REPORTS 2024 [View impact](#)

Journal Impact
Factor™

1.2
Journal Citation
Indicator™

Web of Science Core Collection Science Citation Index Expanded

Additional Indexes Current Contents Agriculture, Biology & Environmental Sciences | Current Contents Engineering, Computing & Technology | Essential Science Indicators

Here are several journals closely aligned with your manuscript topic, including their profiles, impact factors, and subject categories.

Would you like to apply any preferences for your next search?

- Country or region
- Preferred language
- Open access journals only
- Filter by the latest Journal Impact Factor (only the most recent JCR year is supported for filtering)
- Web of Science category (e.g., Environmental Sciences, Development Studies, etc.)
- Publication frequency

Additionally:

- Would you like to see some documents published in any of these journals related to your research area?
- Would you like to see some of the authors who have published in these journals on similar topics?

Please let me know which options you would like to explore next.

Find a Journal

Match your manuscript or topic to relevant, trusted journals.

Find a journal

Tell us about your research area

Research Area

resilient city

RG

To help you find the most suitable journals for publishing, could you please provide the title and abstract of your manuscript? If you don't have both, let me know which are missing. This will allow me to match your work as precisely as possible. If neither is available, I can proceed based on your research area.

Manuscripts Title

How urban form impacts flooding

RG

Thank you. Could you please provide the abstract of your manuscript as well? If you do not have an abstract, let me know so I can proceed accordingly.

Urbanization and climate change are contributing to severe flooding globally, damaging infrastructure, disrupting economies, and undermining human well-being. Approaches to make cities more resilient to floods are emerging, notably with the design of flood-resilient structures, but relatively little is known about the role of urban form and its complexity in the concentration of flooding. We leverage statistical mechanics to study the scaling of urban form and develop a mean-flow theory that relates flood hazards to urban form characteristics such as urban density, and the Mermin order parameter which measures symmetry in building arrangements. We study the dimensionless flood depth that scales linearly with the urban porosity and the order parameter, with different scaling for disordered square- and hexagon-like forms. A universal scaling is obtained by introducing an effective mean chord length representative of the unobstructed downslope travel distance for flood water, yielding an analytical model for neighborhood-scale flood hazards globally. The proposed mean-flow theory is applied to probe city-to-city variations in flood hazards, and shows promising results linking recorded flood losses to urban form and observed rainfall extremes.

Abstract

RG

OPEN ACCESS

WATER RESOURCES RESEARCH

AMER GEOPHYSICAL UNION

UNITED STATES OF AMERICA

0043-1397 / 1944-7973

Article-by-article

0.55 Match Score

JOURNAL CITATION REPORTS 2024

[View impact](#)

5

Journal Impact Factor™

1.2

Journal Citation Indicator™

Journal Information

SUSTAINABILITY

MDPI

SWITZERLAND

2071-1050 / 2071-1050

Semi-monthly

JCR Metrics

JOURNAL CITATION REPORTS 2024

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3.3

Journal Impact Factor™

0.67

Journal Citation Indicator™

Web of Science Core Collection Science Citation Index Expanded | Social Sciences Citation Index

Additional Indexes Current Contents Agriculture, Biology & Environmental Sciences | Current Contents Social And Behavioral Sciences | Essential Science Indicators

Subject Category & Indexes

CITIES

ELSEVIER SCI LTD

ENGLAND

.34 Match Score

JOURNAL CITATION REPORTS 2024

[View impact](#)

6.6

Journal Impact Factor™

1.96

Journal Citation Indicator™

Advanced info

Here are several journals that may be suitable for publishing your manuscript on how urban form impacts flooding.

Would you like to:

- Apply preferences (such as country, language, open access, Journal Impact Factor, Web of Science category, or publication frequency)?
- View documents published in any of these journals related to your research area?
- See authors who have published in these journals on similar topics?

Please let me know your preferences or next steps.

More questions to RA for finding the best-matched journals



Can you provide the journals' JIF higher than 4 and present the information like the score card

RG



Here is a scorecard summary for journals relevant to your manuscript, with a Journal Impact Factor (JIF) higher than 4 (excluding MDPI):

Journal Title	JIF	Open Access
WATER RESOURCES RESEARCH		
CITIES		
JOURNAL OF HYDROLOGY		

If you need more details, let me know!



I prefer open access

RG



OPEN ACCESS

WATER RES

AMER GEOPHYS

UNITED STATE

0043-1397 / 19

Article-by-article

Web of Science Co

Additional Indexes:

OPEN ACCESS

GEOPHYSIC

AMER GEOPHYS

UNITED STATE

0094-8276 / 1944-8007



If my paper is a review article, can you recommend which journal I should submit it to?

RG



I can help you identify open access journals that are a good fit for a review article on how urban form impacts flooding. However, the most suitable journal for a review article depends on each journal's scope and their acceptance of review papers. Among the open access journals recommended for your manuscript, the following are known to publish high-quality review articles in environmental and hydrological sciences:

- WATER RESOURCES RESEARCH (American Geophysical Union)
- ENVIRONMENTAL RESEARCH LETTERS (IOP Publishing)
- Before submitting, please check the "Aims and Scope" and "Instructions for Authors" on each journal's website to confirm that they accept review articles, as policies may change.

Would you like to:

- Apply more preferences,
- View documents in these journals,
- See authors who have published review articles on similar topics,

or need links to the author guidelines for any specific journal?

Download Full-text

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2
引用文獻

WARFARE AND SECURITY (ECCWS 2019) , pp.132-141

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55
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...he ethical challenges of artificial intelligence (AI) is nothing new. Researchers and commentators have highlighted the deficiencies of AI
...garding visible minorities, women, youth, seniors and indigenous people. Currently, there are several ethical guidelines and
...ations for AI. These guidelines provide ethical principles and humancentred values to guide the ... 顯示更多

[檢視全文](#) ...

相關記錄



Multiple Ways to Access Full Text

The screenshot shows a library catalog record for the article "Hubble Deep Field: Observations, data...". At the top, there are four colored buttons: "Link Resolver" (purple), "From Publisher" (green), "ProQuest" (red), and "Other Full Text Links" (yellow). Below these, a navigation bar contains several buttons: "Free Full Text From Publisher" (highlighted with a red box), "View Full Text on ProQuest", "Full Text Links" (with a dropdown arrow), "Export", and "Add To My List". A dropdown menu is open under "Full Text Links", showing options: "Free Submitted Article From Repository", "Free Submitted Article From Repository", and "Search on Google Scholar" (with a graduation cap icon). The main record details include:

- By:** Williams, RE (Williams, RE); Blacker, B (Blacker, B); Dickinson, M (Dickinson, M); Dixon, WV (Dixon, WV); Ferguson, HC (Ferguson, HC); Fruchter, AS (Fruchter, AS); Giavalisco, M (Giavalisco, M); Gilliland, RL (Gilliland, RL); Heyer, I (Heyer, I); Katsanis, R (Katsanis, R); ...More
- Source:** ASTRONOMICAL JOURNAL. Volume: 112 Issue: 4 Page: 1335-& DOI: 10.1086/118105
- Published:** OCT 1996
- Indexed:** 1996-10-01
- Document Type:** Article
- Abstract:** The Hubble Deep Field (HDF) is a Director's Discretionary program on HST in Cycle 5 to image an undistinguished field at high Galactic latitude in four passbands as deeply as reasonably possible. These images provide the most detailed view to date of distant field galaxies and are likely to be important for a wide range of studies in galaxy evolution and cosmology. In order to optimize observing in the time available, a field in the northern continuous viewing zone was selected and images were taken for ten consecutive days, or approximately 150 orbits. Shorter 1-2

- ❖ Interlibrary loan
- ❖ Free full text website
 - <http://www.freemedicaljournals.com/>
 - <http://highwire.Stanford.edu/j/>
- ❖ Contact authors



Live Demo

Web of Science Research Assistant

Search isn't one size fits all

Comparing different Web of Science search experiences

	Smart Search	Advanced Search	Research Assistant
Skill level	Beginner to intermediate	Intermediate to expert	All levels
Search input style	Phrases, keywords or entities	Boolean logic, fielded queries	Conversational prompts, questions
Search modes	Boolean + Semantic	Boolean only	Natural language + guided tasks
AI usage	Machine learning, semantic search, entity recognition, auto-correct, multilingual support	No AI; manual query construction	Generative AI, agentic AI
Query flexibility	High Recognizes topics, authors, institutions; understands intent	Low Requires precise syntax and field knowledge	Very high Interprets intent, guides query refinement, proactively offers related queries
Optimized for	Quick discovery, finding related content, locating authors and papers	Precision, reproducibility, systematic reviews	Literature synthesis, exploring an unfamiliar topic, hypothesis generation, light analytics
Multilingual	Yes (query and abstract translation)	No	Yes (multi-language input and summaries)
Visualizations	Co-citation maps + Analyze Results	Analyze Results	Topic maps, trend graphs, co-citation networks, co- author networks, benchmarking charts
Transparency	User can toggle Boolean vs. Semantic results	Fully manual, transparent logic	AI explains reasoning and lets users validate steps



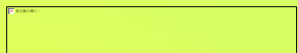
Deep Dive & Trends

Exercise I

Ask WOS RA: 'What are the current research directions regarding the impact of microplastics on human health?' and create a **topic map** and **words cloud**.

Exercise II

What are the major technological breakthroughs in “Perovskite Solar Cells” over the past 3 years Please also identify the current **research gaps** in this field.



Interdisciplinary Connection

Exercise III

Enter two unrelated topics (e.g., **Climate Change** and **Mental Health**) and ask WOS RA whether there are any **interdisciplinary research connections** between them.

Core Journal Identification

Exercise IV

Ask WOS RA to recommend 5 **journals** on the topic of “Architectural Design”

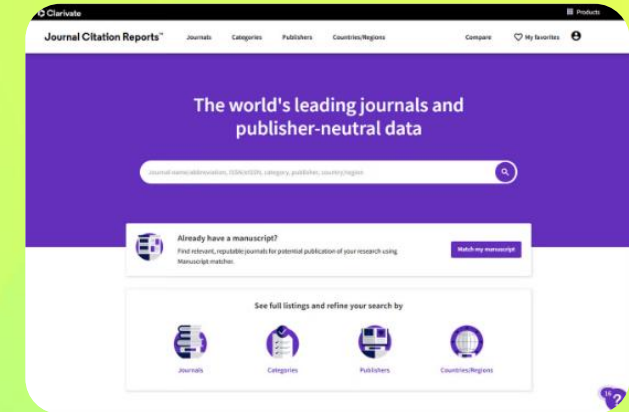




Journal Citation Reports

A database for identifying the influential journals

Celebrating 50 years



“Journal Citation Reports 2025 marks 50 years of trusted, publisher-neutral journal intelligence and unveils key updates to the Journal Impact Factor, reinforcing research integrity in scholarly publishing”



Dr. Nandita Quaderi
SVP, Clarivate | Editor-in-Chief, Web of Science



Journal Citation Reports

Assess the world's leading journals with transparent, publisher-neutral journal intelligence

Selectivity

Quickly find a list of trustworthy, influential journals in all disciplines.

Each journal profiled has met the rigorous quality standards documented in the Web of Science Core Collection™ editorial selection process.

Reliability

Work with credible metrics derived from accurate and complete data.

Journals displaying evidence of excessive self-citation and citation stacking have their JIFs suppressed from Journal Citation Reports to support research integrity in scholarly publishing.

Transparency

Easily uncover the **relationship between article and journal citations** to follow best practices in research evaluation.

Monitor journal coverage changes monthly in the Master Journal List.

Multiple impact views

Evaluate journals with a multidimensional view of a journal's impact and influence.

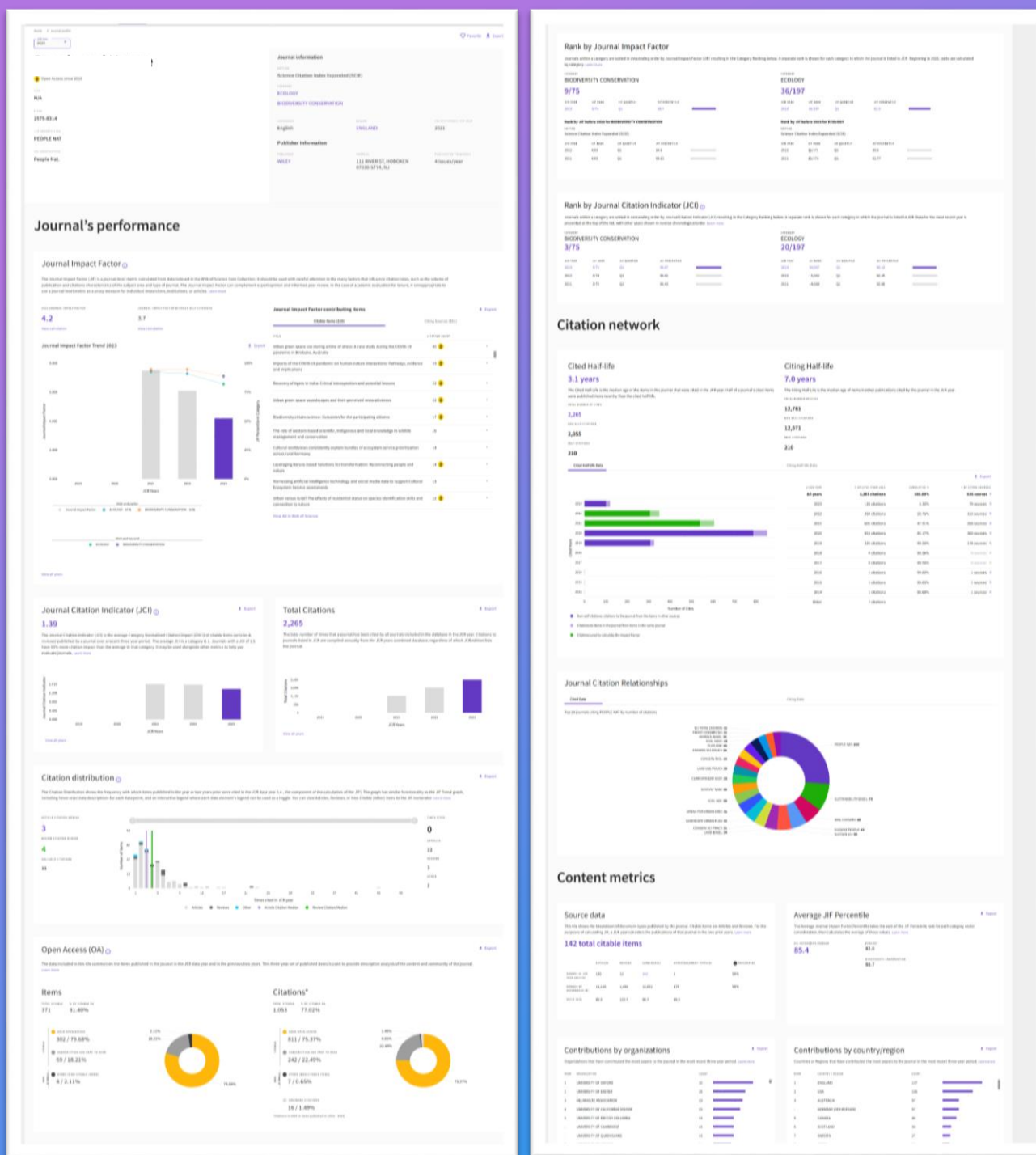
View citation metrics alongside descriptive open access statistics and contributor information that provide a holistic picture of each journal.

A Complete View of Journal Performance

The story of a journal's influence and impact goes beyond a single metric.

JCR provides a complete citation landscape, supporting a more responsible, multidimensional approach to assessing journal influence with citation profiles that provides context, transparency, and deeper insights.

View citation metrics alongside descriptive open access statistics and contributor information that provide a holistic picture of each journal.



Key Metrics in JCR

A review of Journal Impact Factor (JIF)

The JIF is a **journal-level** metric that was released with the first JCR in 1975.

The JIF is a ratio which divides the number of citations a journal receives by the number of its published articles.

The JIF is used **responsibly** as a measure of journal performance by:

- librarians for collection management.
- publishers for journal and portfolio management.

The JIF is also used—**irresponsibly**—to evaluate individual articles and researchers during research assessment.



“The *JCR* answers these basic questions... who uses a particular journal? how frequently? for what purposes?”

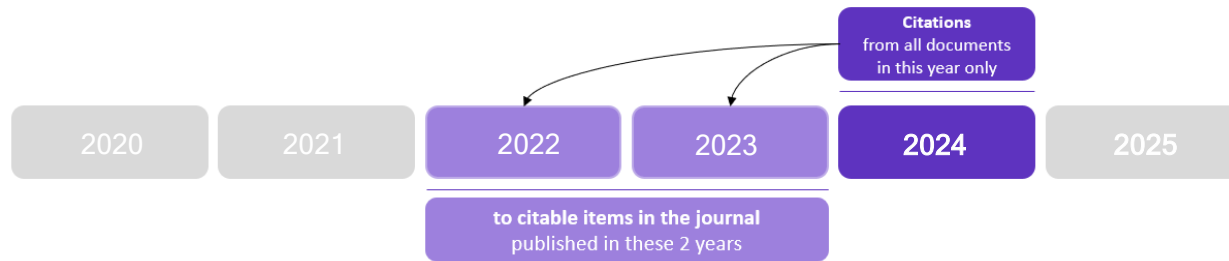
-Dr. Eugene Garfield



Journal Impact Factor (JIF)

Metric for Journal level

JIF can be used to compare journals within the same research discipline

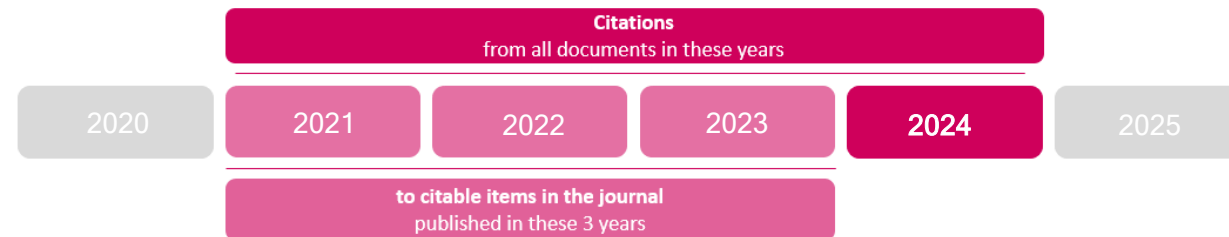


the number of citations a typical article or review received in the JCR year.

Journal Citation Indicator (JCI)

Metric for Journal level-Normalized

JCI can be used to compare journals within different research discipline



the Normalized citation impact of a journal compared to its peer group.

A JCI of 1.0 indicates average performance.



Related metrics with JIF

Journal Citation Reports data

Journal Impact Factor Quartile

- The Journal Impact Factor quartile is the quotient of a journal's rank in category (X) and the total number of journals in the category (Y), so that $(X / Y) = \text{Percentile Rank } Z$.

Average JIF Percentile

- The Average Journal Impact Factor Percentile takes the sum of the JIF Percentile for each category, and then calculates the average from those values.

Rank by Journal Impact Factor

- Journals within a category are sorted in descending order by Journal Impact Factor (JIF). A separate rank is shown for each category in which the journal is listed in JCR. Beginning in 2023, ranks are calculated by category.

Journal Citation Reports™ Journals Categories Publishers Countries/Regions My favorites Renee Guan

The world's leading journals and publisher-neutral data

Journal name/abbreviation, ISSN/eISSN, category, publisher, country/region

Already have a manuscript? Find relevant, reputable journals for potential publication of your research using Manuscript matcher. **Match my manuscript**

NATURE

ISSN: 0028-0836
EISSN: 1476-4687
JCR ABBREVIATION: NATURE
JCR ABBREVIATION: Nature

Journal information
EDITION: Science Citation Index Expanded (SCIE)
CATEGORY: MULTIDISCIPLINARY SCIENCES-SCIE

Journal's performance
Journal Impact Factor 64.8
2022 JOURNAL IMPACT FACTOR: 64.8
JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS: 64.0
Journal Impact Factor Trend 2022: 2018 (45.0), 2019 (45.0), 2020 (45.0), 2021 (65.0), 2022 (64.8)

Source data
1,114 total citable items
ARTICLES: 1,101 (34%), REVIEWS: 13 (1%), COMBINED/OTHER DOCUMENT TYPES: 1,114 (34%), REFERENCES: 65,304 (90%), RATIO (R/I): 59.4, 141.0, 60.3, 3.4

Average JIF Percentile
99.3

Contributions by organizations
1. UNIVERSITY OF CALIFORNIA SYSTEM (665)
2. HARVARD UNIVERSITY (551)
3. MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT) (350)
4. HOWARD HUGHES MEDICAL INSTITUTE (344)
5. UDICE ESZCHN (321)

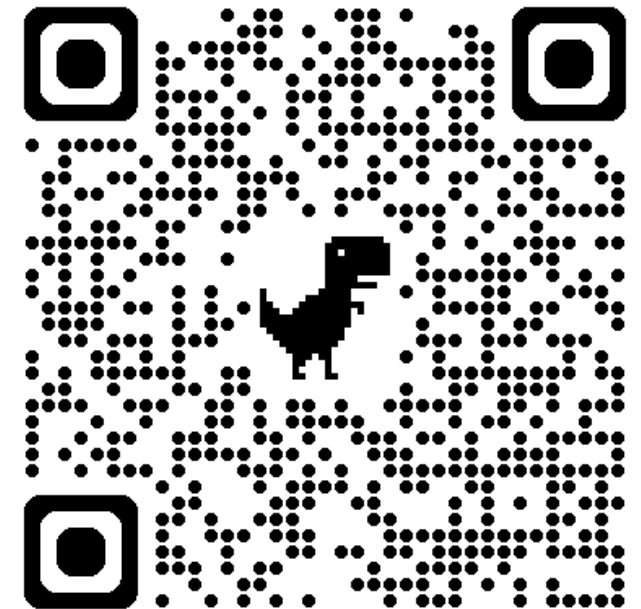
Contributions by country/region
1. USA (2270)
2. England (1179)
3. GERMANY (FED REP GER) (908)
4. CHINA MAINLAND (756)
5. France (470)
6. Switzerland (436)

Live demo JCR

Training & Support

<https://clarivate.com/academia-government/training-support/>

The screenshot shows the top navigation bar with the Clarivate logo and 'Academia & Government' text. On the right, there are links for 'Products and services', 'About', 'Insights', and 'Contact us'. Below this is a dark header with 'Training and Support' on the left and 'Find resources' with a dropdown arrow on the right. The main content area has a dark background with the title 'Training and support' in large green letters. Below the title is the text 'Clarivate Research Solutions training and support.' and two yellow buttons labeled 'Live training' and 'Recorded training'. A white sidebar on the left lists 'Web of Science', 'EndNote', 'InCites/JCR', 'ScholarOne', and 'Other solutions'. The main content area below the header features the text 'Web of Science' in purple, followed by three white boxes containing the text: 'Web of Science platform', 'Web of Science Core Collection', and 'Derwent Innovations Index'.



Training & Support

<https://clarivate.com/academia-government/training-support/web-of-science-platform/web-of-science-databases>

Clarivate Academia & Government

Training and Support

- Biosis
- CAB Abstracts & Global Health
- Current Contents Connect
- Data Citation Index
- Derwent Innovations Index
- FSTA
- Grants Index
- Inspec
- Medline
- Preprint Citation Index
- ProQuest Dissertations & Theses Citation Index
- Regional Citation Indexes

Preprint Citation Index

VIDEO

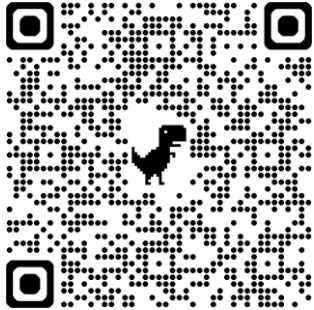
Introduction to Preprint Citation Index

+

GUIDE

Preprint Citation Index

↗

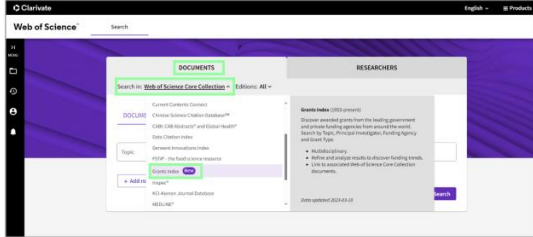


Clarivate Web of Science Grants Index

Quick Guide

This Quick Guide helps you understand how to access directly sourced, standardized data from 400+ funders around the globe. New database makes it easy for you to understand what has been funded, leverage information on previously awarded grants to better differentiate new proposals or explore past funding activities.

On the **Web of Science Documents** search, open the drop-down menu **Search in** and choose **Grants Index**.



Navigating ProQuest™
Dissertations & Theses
Citation Index on
the Web of Science™

An introduction to
Preprint Citation Index
on the Web of Science platform



Thank you

About Clarivate

Clarivate is the leading global information services provider. We connect people and organizations to intelligence they can trust to transform their perspective, their work and our world. Our subscription and technology-based solutions are coupled with deep domain expertise and cover the areas of Academia & Government, Life Sciences & Healthcare and Intellectual Property. For more information, please visit clarivate.com

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