

From Research Idea to Discovery: Accelerate Your Research Journey with Web of Science & AI-Powered Research Assistant

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Session Objectives

- Understand how the Web of Science platform serves as a starting point for research and discovery.
- Familiarize yourself with Web of Science Core Collection strengths and capabilities
- Explore various search tools, enhanced features, filters, AI tools, and analysis options to better support the research needs of UJ users.

The research landscape has never been richer

Publications, patents, funding and open research are expanding access to ideas, evidence and collaborators.



46K+

Academic Journals

published every year

33M+

Academic Papers

published since 2018

5M+

Research Documents

published every year

~\$130B+

Funding

available globally

3.46M

Patents

filed in 2022

28.7%

Growth

over 10 years

The opportunity is not simply more information. It is more routes to discovery, funding, collaboration and impact.

Abundance without control can amplify bad information

When volume rises faster than evaluation, questionable outlets and manipulated content become harder to detect.

↗ Volume is up

- Funder mandates
- OA publishing
- Mega journals
- Preprint servers
- AI writing assistance

↘ Quality is down

- Fabricated citations
- Faked results
- Data & image manipulation
- Rising retractions
- LLM-assisted fraud

🔍 Detection is harder

- Predatory journals
- Journal hijacking
- Papermills
- AI-assisted peer review
- Sophisticated AI tools

15K+

Predatory Journals

\$1B+

Research Budget Wasted

13K+

Retractions In 2023

8K+

Hindawi Paper-mill Retractions

CONSEQUENCE

Wasted funds. Lost time. Misleading evidence. Damaged trust.

Web of Science

Accelerate your institution's research with an integrated suite of trusted resources



High-quality content

Promote research integrity and support information literacy by pointing students and faculty to content from the world's leading publications.



Multidimensional researcher profiles

Help your researchers showcase their scholarly contributions and demonstrate impact on the research landscape to strengthen your institution's standing.



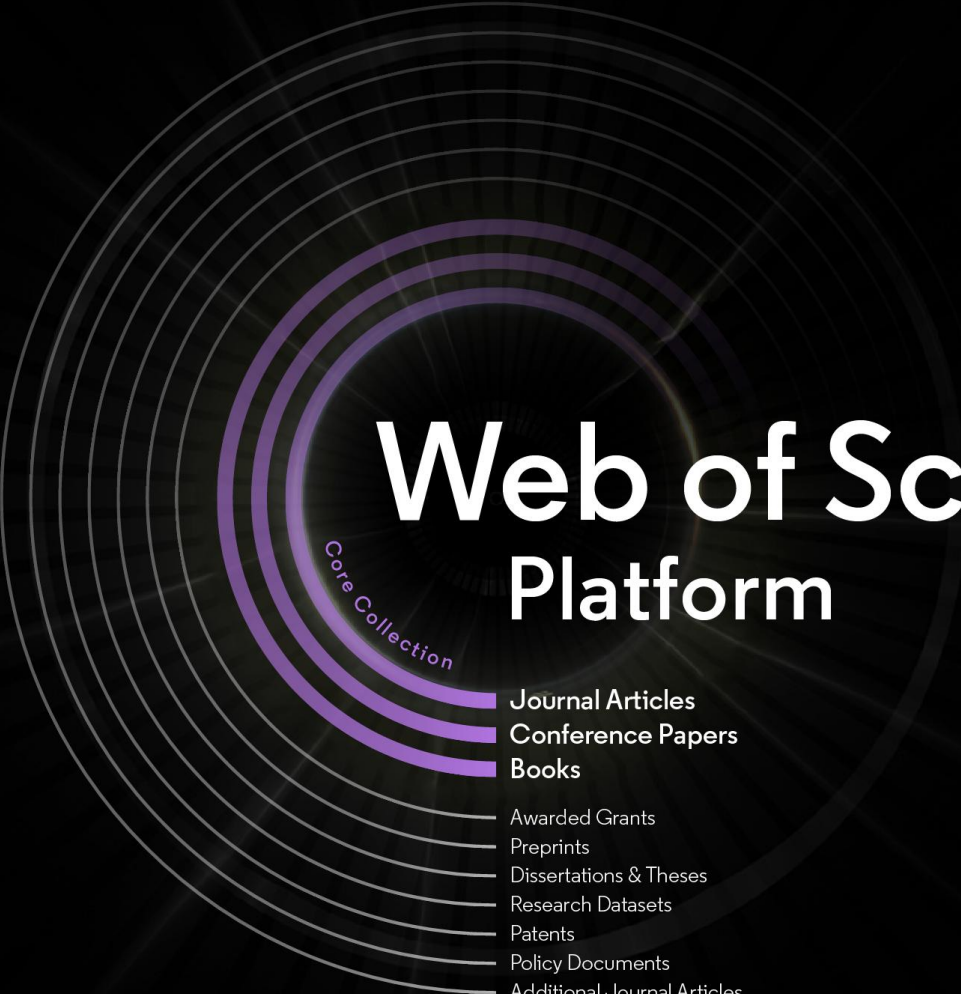
Workflow and analysis tools

Save time with tools that automatically write your bibliography for you, identify reputable, best-fit journals for your manuscripts, and output your CV with the click of a button.



Publisher-neutral expertise

Gain insights into industry trends from the Institute for Scientific Information (ISI) or learn how to peer review from publisher-neutral experts.

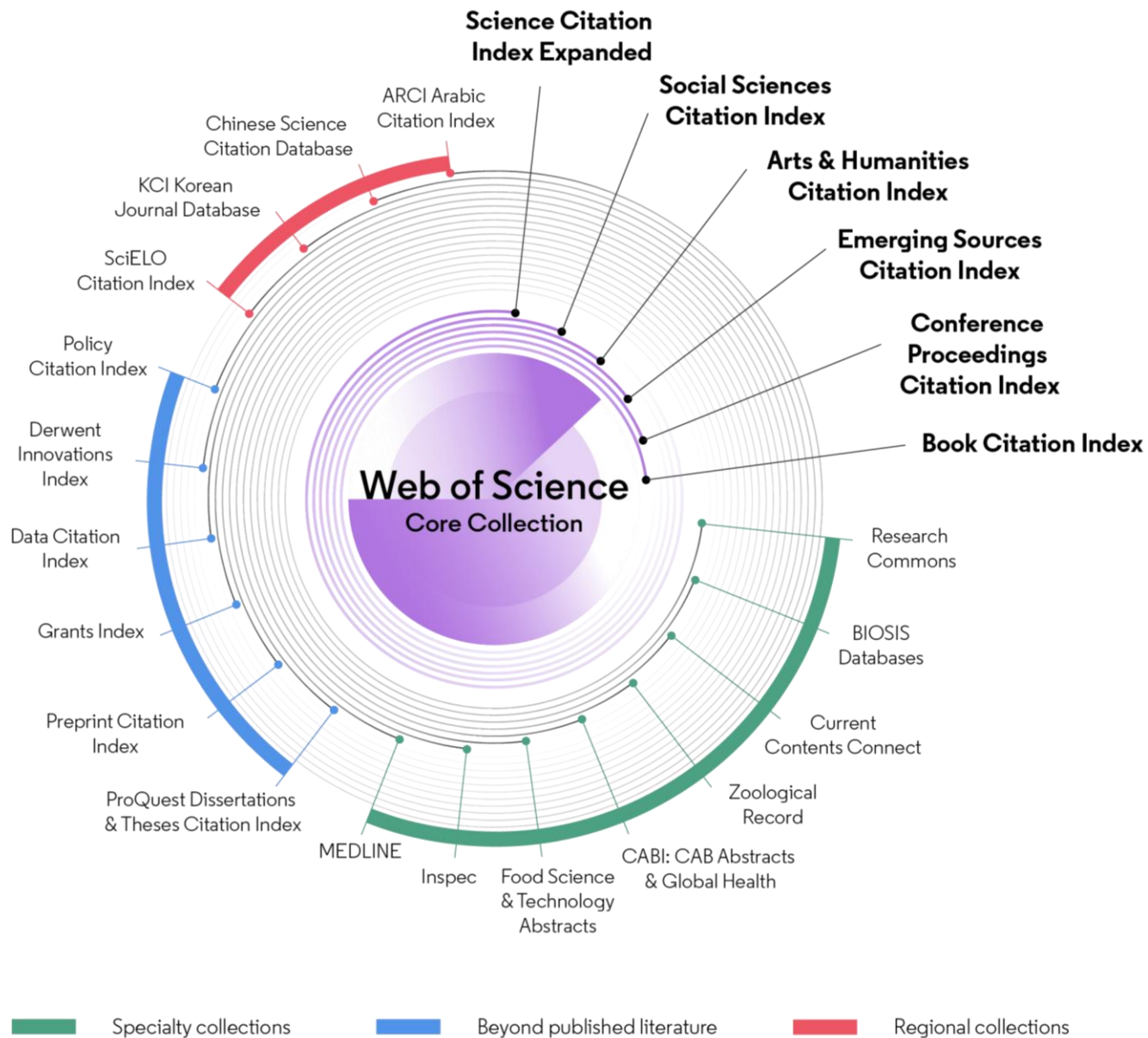
A diagram illustrating the Web of Science Platform. It features a central circle with the text "Web of Science Platform" in white. Surrounding this central circle are several concentric rings. The innermost ring is purple and labeled "Core Collection". The next ring is also purple and contains the text "Journal Articles", "Conference Papers", and "Books". The outer rings are white and contain the text "Awarded Grants", "Preprints", "Dissertations & Theses", "Research Datasets", "Patents", "Policy Documents", and "Additional Journal Articles".

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...

- 288 million records
- 3.4 billion cited references
- 34,633 active journals
- 254 subject categories
- 6.6 million dissertations and theses
- 3.2 million preprints
- 139 million patents for 68 million inventions
- 19 million data sets and studies
- 5.7 million awarded grants
- 2.7M policy documents

...in a single platform



Web of Science Core Collection

Web of Science Core Collection

Research with confidence using the world's most trusted citation index



Track the development and evolution of ideas

Find early discoveries in conference literature and explore their progression in journal literature and books.



Uncover related research via citation linking

Leverage a powerful citation network to find papers that have cited works of art, fiction, data models, government reports, and other material.



Conduct data-intensive studies

More researchers rely on the Web of Science Core Collection than on Scopus and Google Scholar for systematic review and research evaluation.*



Trust your resources in an age of misinformation

Consistent, rigorous evaluation and curation means you can have confidence in the quality of your results.

*Read ISI's [Value of Bibliometric Databases Report](#)

- Multidisciplinary and international in scope
- Over **22,956 journals** across the
 - **Science Citation Index Expanded**
 - **Social Sciences Citation Index**
 - **Arts & Humanities Citation Index**
 - **Emerging Sources Citation Index**
- Over **321,000 conferences** in the Conference Proceedings Citation Index
- Over **167,000 books** in the Book Citation Index

Web of Science Core Collection

Research with confidence using the world's most trusted citation index



Key questions

- What are the key papers on my topic, and how can I stay up to date?
- Who are the leading authors on this topic, and who funds their work?
- Who should I collaborate with on my next project?
- Who is citing my research?
- What open access papers has my institution produced?

Features and data sources

- +2.6 billion cited references
- +101 million total records dating back to 1900
- +23 million open access papers
- 254 subject disciplines

Protect your Research Reputation

Editorial integrity and publisher neutrality



Publisher neutral

Our in-house experts, who have no affiliations to publishers or research institutes, select the journals in the Core Collection to provide you with a data set of the world's leading research publications that is free of potential industry bias or conflict of interest.



In-house curation

Rigorous curation processes guard against inclusion of hijacked journals, and expert review ensures that journals are correctly classified into the appropriate subject categories so that your statistical reporting and analyses are accurate. Databases that rely on algorithmic approaches* or occasional outside review lack consistency and oversight.



Vetted OA content

Access over 20 million open access papers—including green OA— from reputable journals that have been vetted against our 24 quality evaluation criteria. Easily determine which fields are well covered by this material so that you can reserve your budget for only the most critical gaps.

[*https://retractionwatch.com/2021/05/26/how-hijacked-journals-keep-fooling-one-of-the-worlds-leading-databases/](https://retractionwatch.com/2021/05/26/how-hijacked-journals-keep-fooling-one-of-the-worlds-leading-databases/)

[More information](#)



28
selection criteria in total



24
quality criteria to select for editorial
rigor and publishing best practice



4
impact criteria to select for the most
impactful journals

Assess and Monitor Research with Powerful Analytics

Meticulous metadata construction



Cited references for all papers back to 1900 help you discover the origins of today's scholarly research.



All author names and addresses captured for all papers ensures that your high stakes decisions are the right ones.



Funding data enables you to understand the funding landscape and connect outputs to grants.



Standardized author affiliations save you time compiling productivity statistics.



Cover-to-cover indexing provides you with the certainty that your discovery and analysis is free of any hidden gaps.



Daily updates equip you with information on the latest breakthroughs.

What is a Citation Index?

A&I Database

A traditional Abstracting and Indexing (A&I) Database of scholarly literature captures basic, **bibliographic** metadata to aid **discovery** of content (title, author abstract)

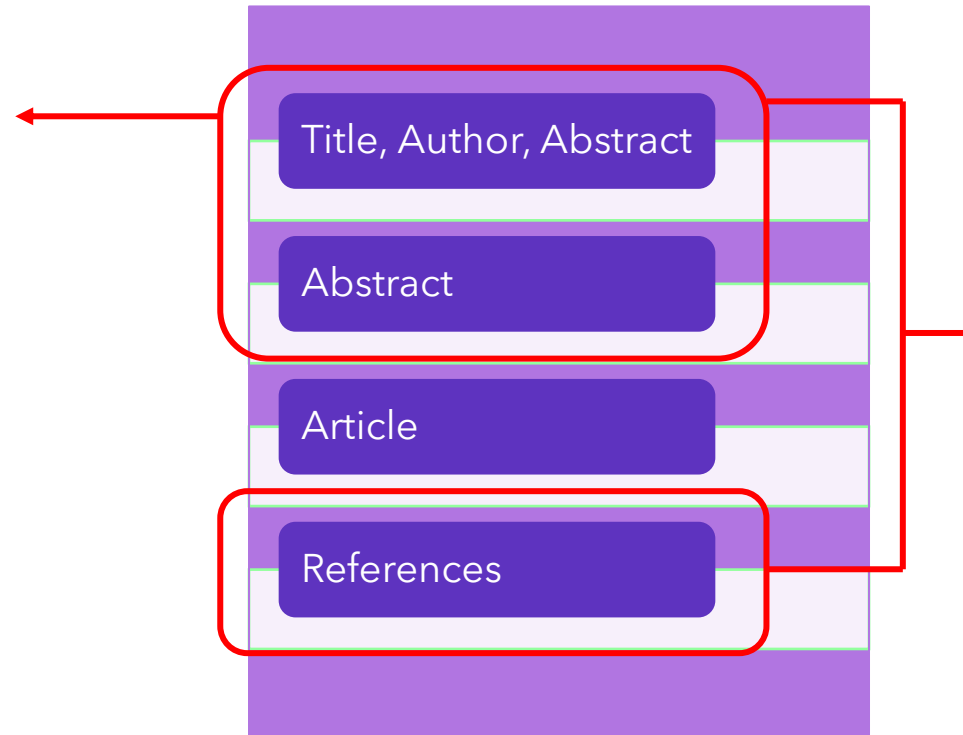
Discovery

Citation Index Database

A Citation Index database, not only captures the basic, **bibliographic** metadata to aid discovery, it also indexes the **citations and references** for each full text journal article.

It is a **dynamic dataset**, which creates a live **Citation Network**

Discovery & Analytics: Citation Network

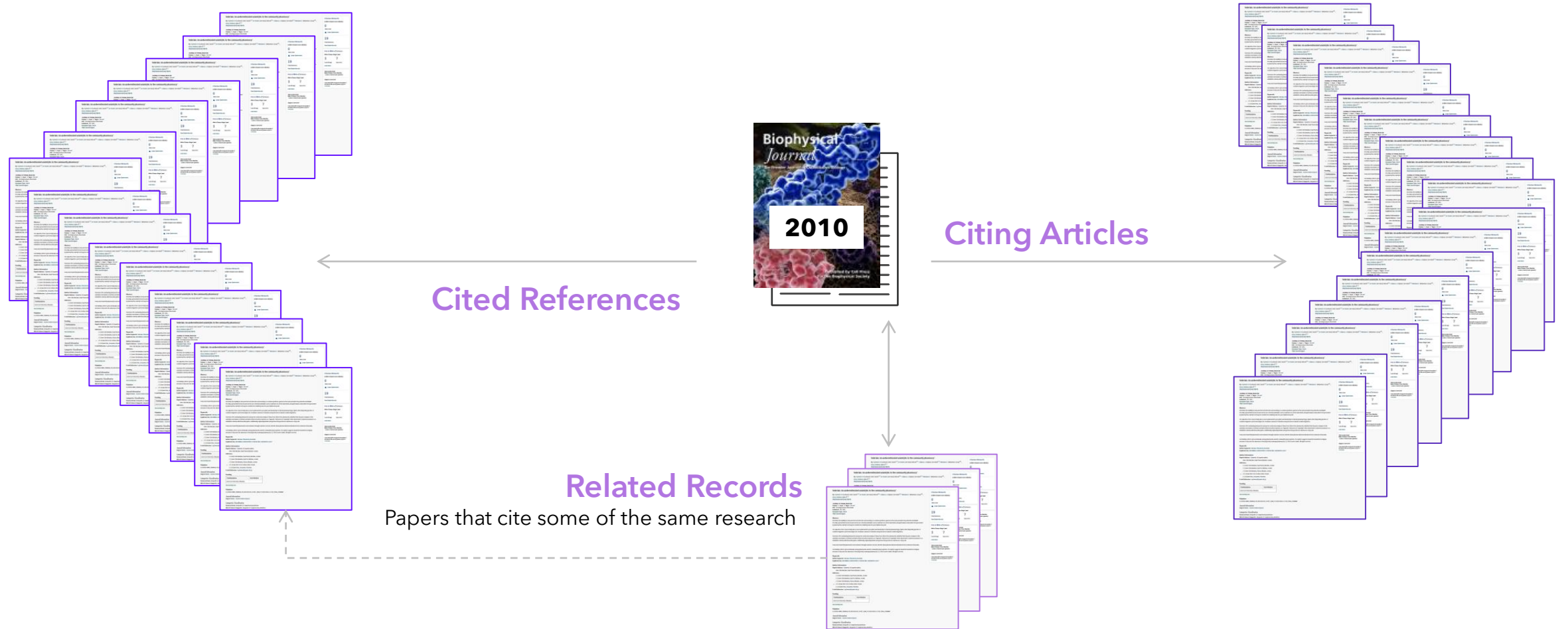


Watch this:

[Web of Science Video](#)

Uncover Hidden Connections

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





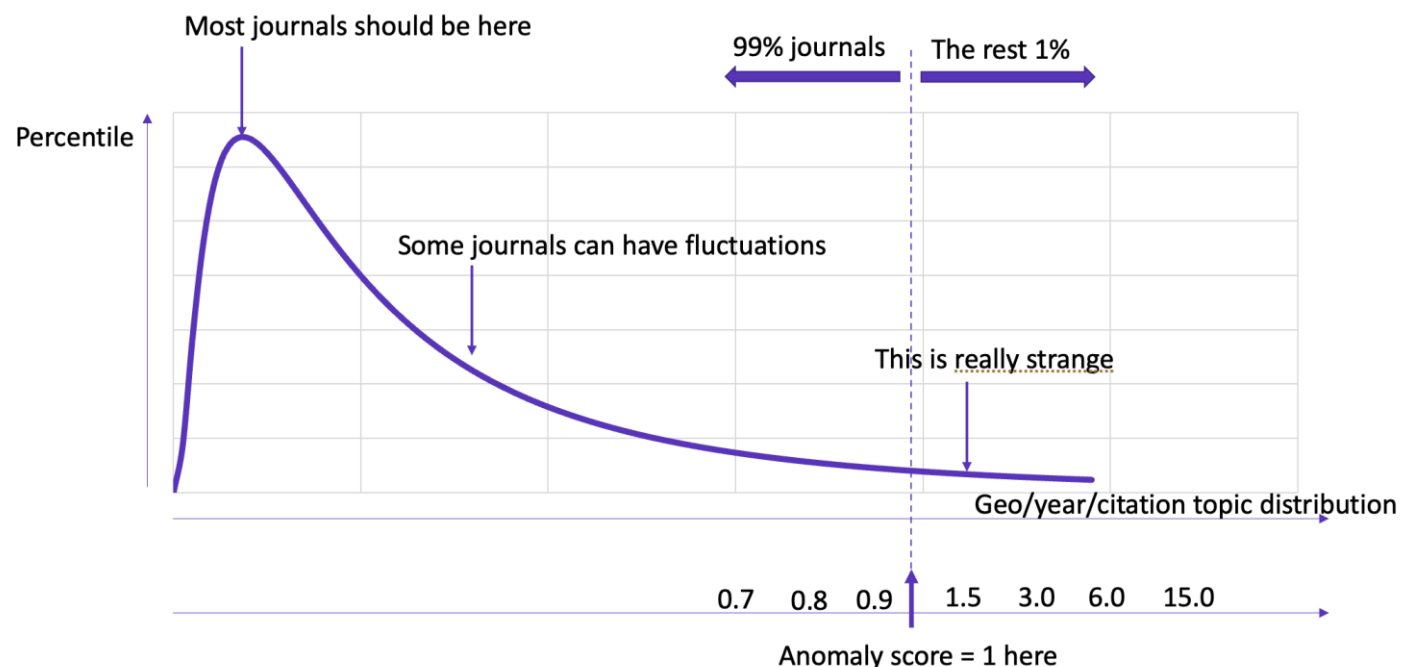
Artificial Intelligence in the Web of Science

Web of Science AI journal monitoring tool

Outlier detection model supports existing human curation processes: Web of Science editors review journals flagged by the system.

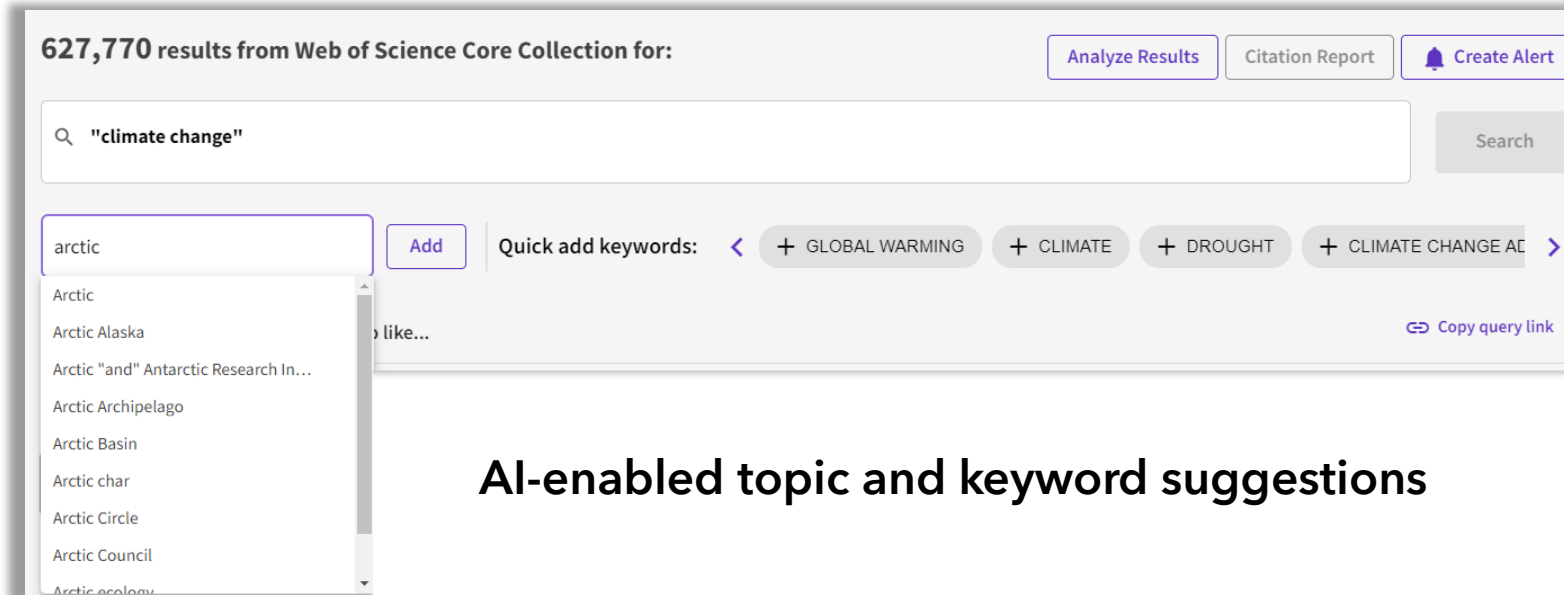
Goal: Identify anomalous publishing behavior in journals.

Method: Use a complex statistical score to identify deviation from past publishing behavior and deviations from the publishing behavior of other journals sharing the same Web of Science category. A combined score is used to flag highly anomalous journals for expert review.



Enhanced search experience

AI for improved searching in the Web of Science

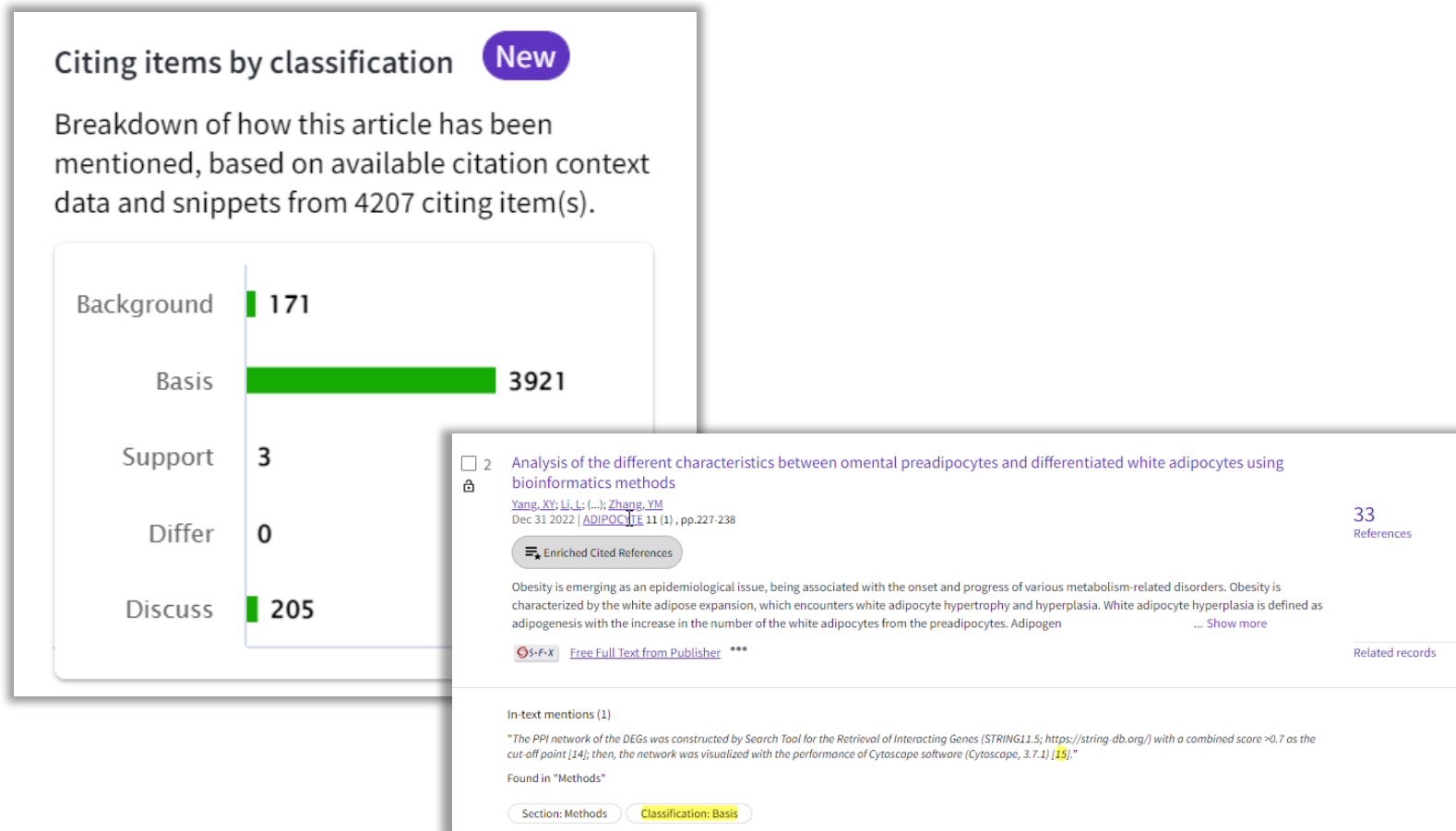


AI-enabled topic and keyword suggestions

- Quickly and efficiently narrow your search and improve the relevancy of your results.
- Modify your search using algorithmically generated author keywords and topic suggestions or input free text in the search box.

Citation context

AI for enriched discovery in the Web of Science



Example Web of Science record

A popular feature built with input from the community.

- 40k "Filter By Enriched Cited References" per week
- Conduct more targeted searches
- Locate must-read papers
- Build nuanced understanding of how and why citations occur

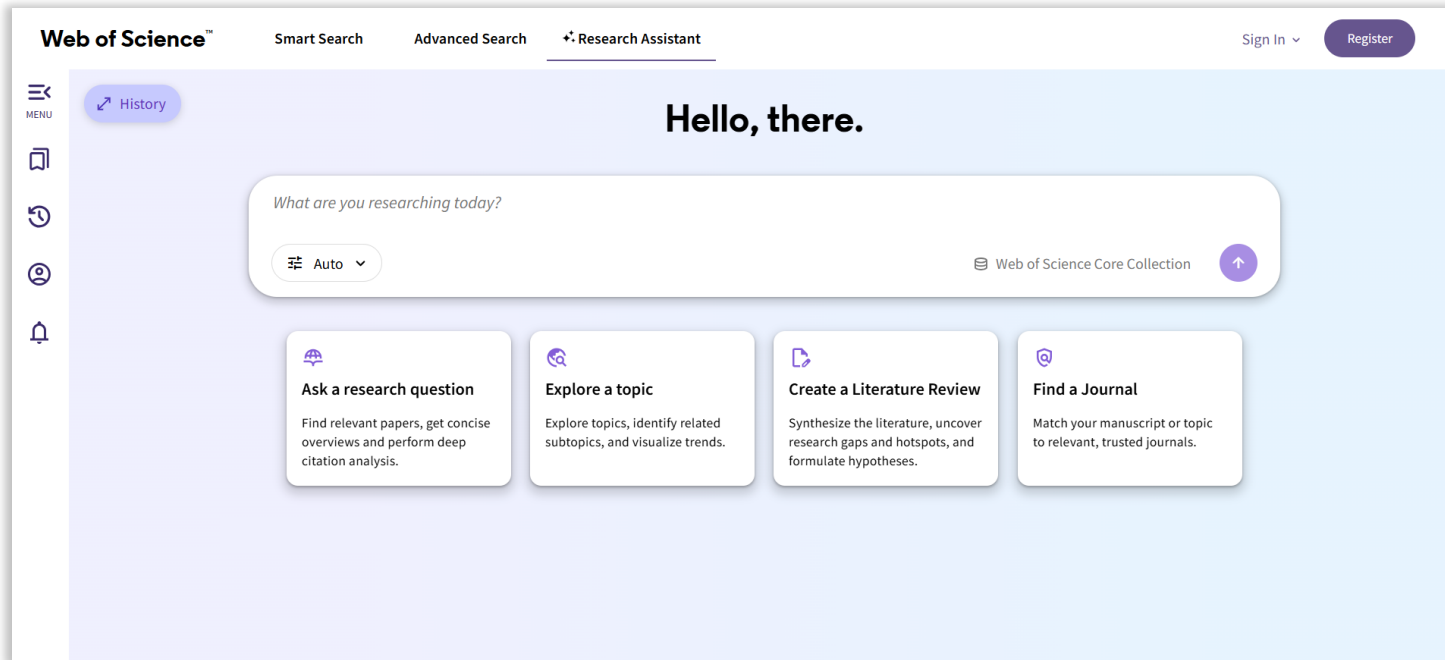
Web of Science Research Assistant

Research smarter



Web of Science Research Assistant

Agentic AI grounded in curated metadata delivers a trusted experience



Get more out of your interactions with trusted Web of Science Core Collection data

- ✓ *Intelligent discovery*
- ✓ *Task-based guidance*
- ✓ *Responsible AI*

Spend less time building queries and more time learning from results



-
- ✓ Search efficiently with natural language, multilingual queries



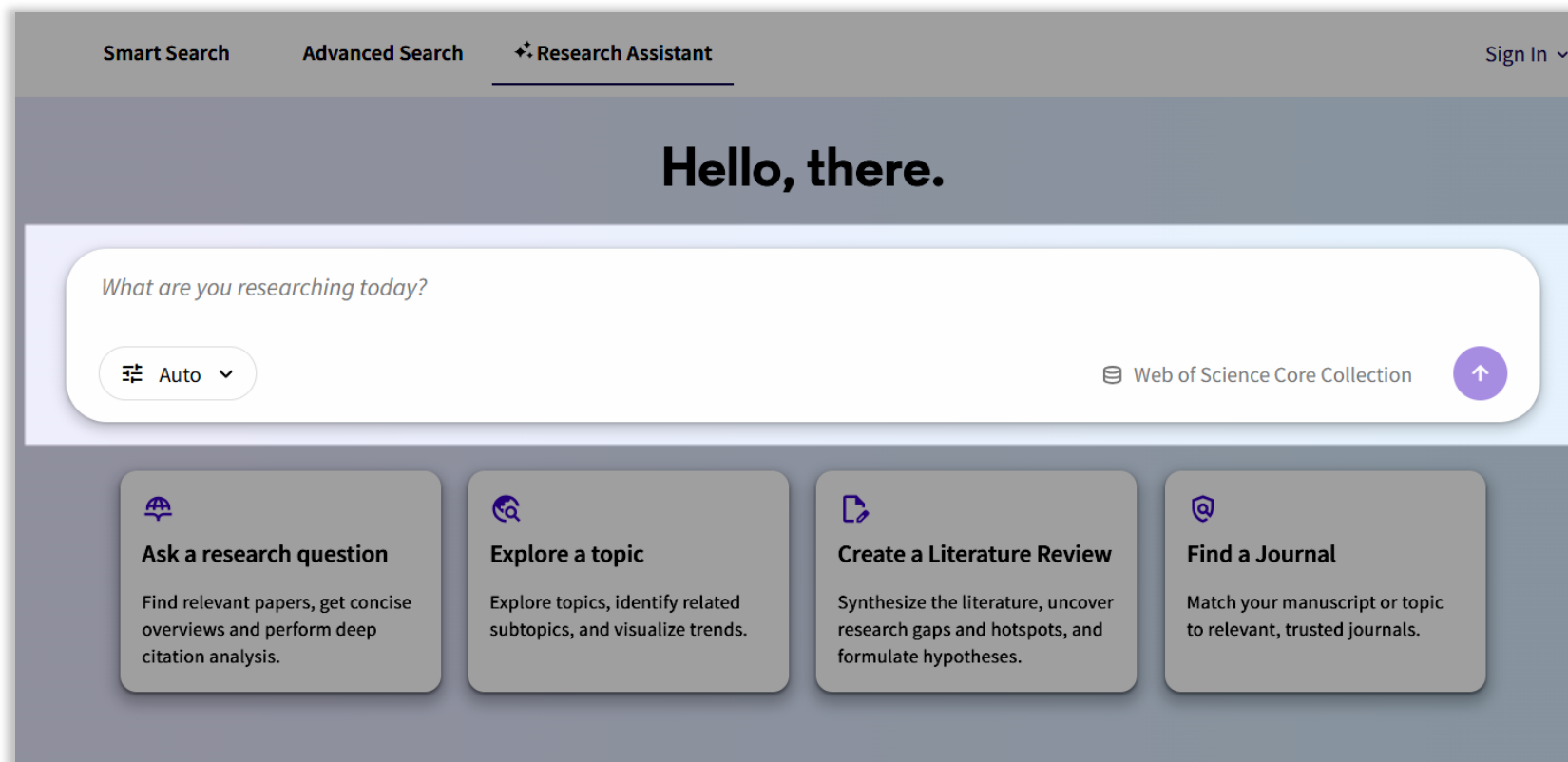
-
- ✓ Grasp core concepts faster with concise overviews and commentaries



-
- ✓ Uncover meaningful connections with dynamic visualizations

A unified entry point for the entire research journey

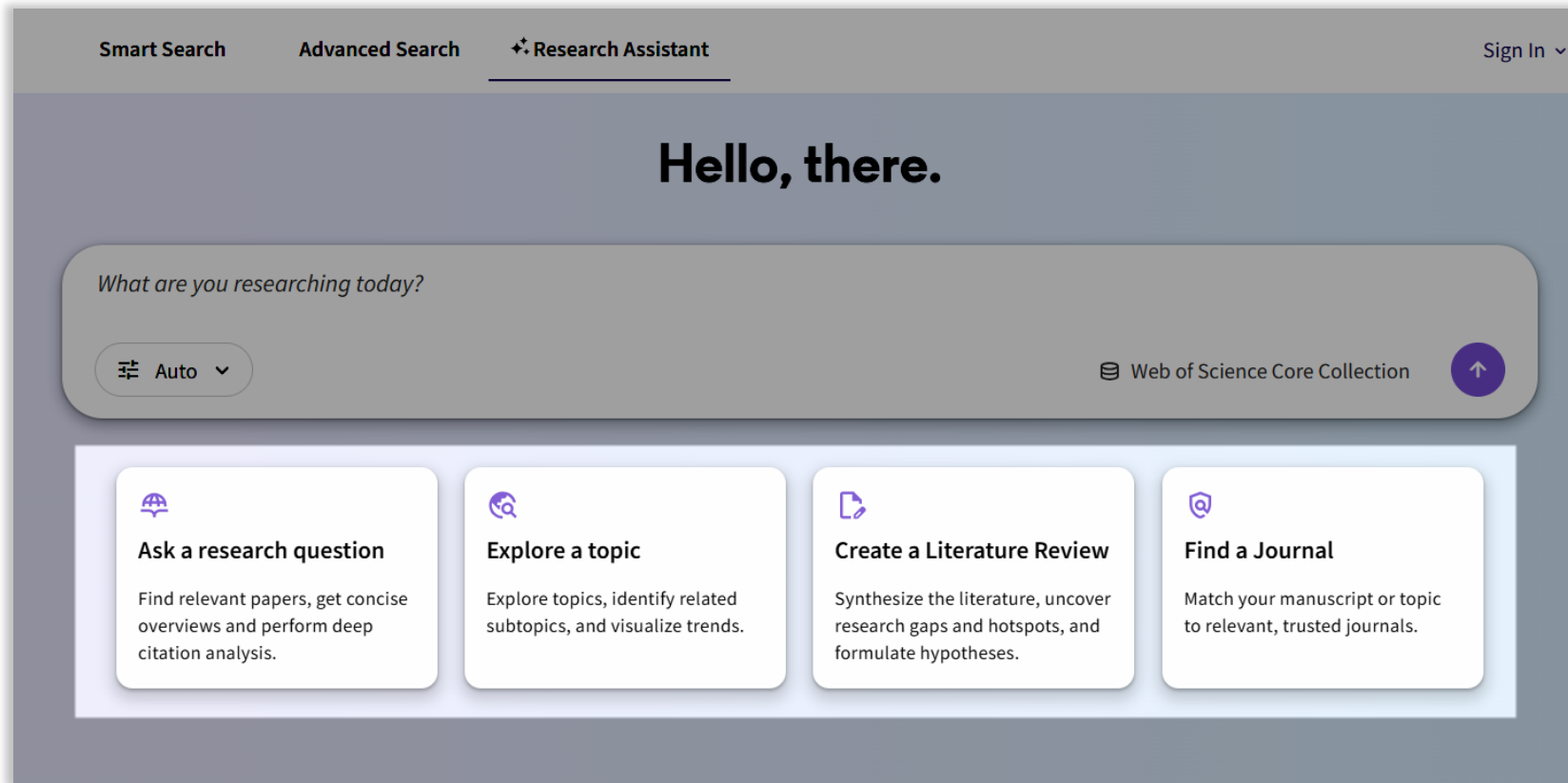
Quick start option for any research question



- A single conversational starting point that adapts to changing research questions.
- Surfaces the right tools and context at the right time.
- Eliminates the need for users to choose a tool or workflow upfront.

Task-based agentic AI-powered guides

Dive into a particular workflow right away



- Dedicated guides offer alternative starting points and prompts.
- Support for different research styles--begin in a guide or the unified entry point

AI transparency before and after the search

The screenshot displays the Clarivate AI search interface. At the top, a search bar contains the query "How does climate change affect biodiversity?". Below this, a section titled "Search strategy:" provides details on the search process. It lists "Core terms: climate change, biodiversity", "Synonyms and related concepts: global warming, species richness, ecosystem diversity, biological diversity, ecological impact", and the "Boolean query: (climate change OR global warming) AND (biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication (Document Type) in Web of Science Core Collection." A prompt asks if the user would like to proceed with this strategy or refine their focus. Below this, a "Proceed" button is visible. The next section, "How are these results generated?", shows the structured query used: "I searched for TS=(climate change OR global warming) AND TS=(biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication (Document Type) in Web of Science Core Collection." It includes an "Overview" of the search results, stating that recent scientific research demonstrates that climate change profoundly affects biodiversity. At the bottom, there is a button to "View 14 referenced documents" and links to "View all results in Web of Science Core Collection" and "View related preprints".

How does climate change affect biodiversity?

Search strategy:

Core terms: climate change, biodiversity

Synonyms and related concepts: global warming, species richness, ecosystem diversity, biological diversity, ecological impact

Boolean query: (climate change OR global warming) AND (biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication (Document Type) in Web of Science Core Collection.

Would you like to proceed with this search strategy or refine your focus (such as a specific region, ecosystem, or time period)?

Proceed

How are these results generated? ▾

I searched for **TS=(climate change OR global warming) AND TS=(biodiversity OR species richness OR ecosystem diversity OR biological diversity OR ecological impact) not Retracted Publication (Document Type) in Web of Science Core Collection.**

Overview

Recent scientific research demonstrates that climate change profoundly affects biodiversity, influencing species richness, ecosystem composition, and the stability of ecological communities. Impacts are evident across ecosystems—terrestrial, freshwater, and marine—

country/geographic maps. I can also help identify top authors or discover seminal papers. Please let me know how you'd like to proceed.

View 14 referenced documents ▾

[View all results in Web of Science Core Collection →](#) [View related preprints →](#)

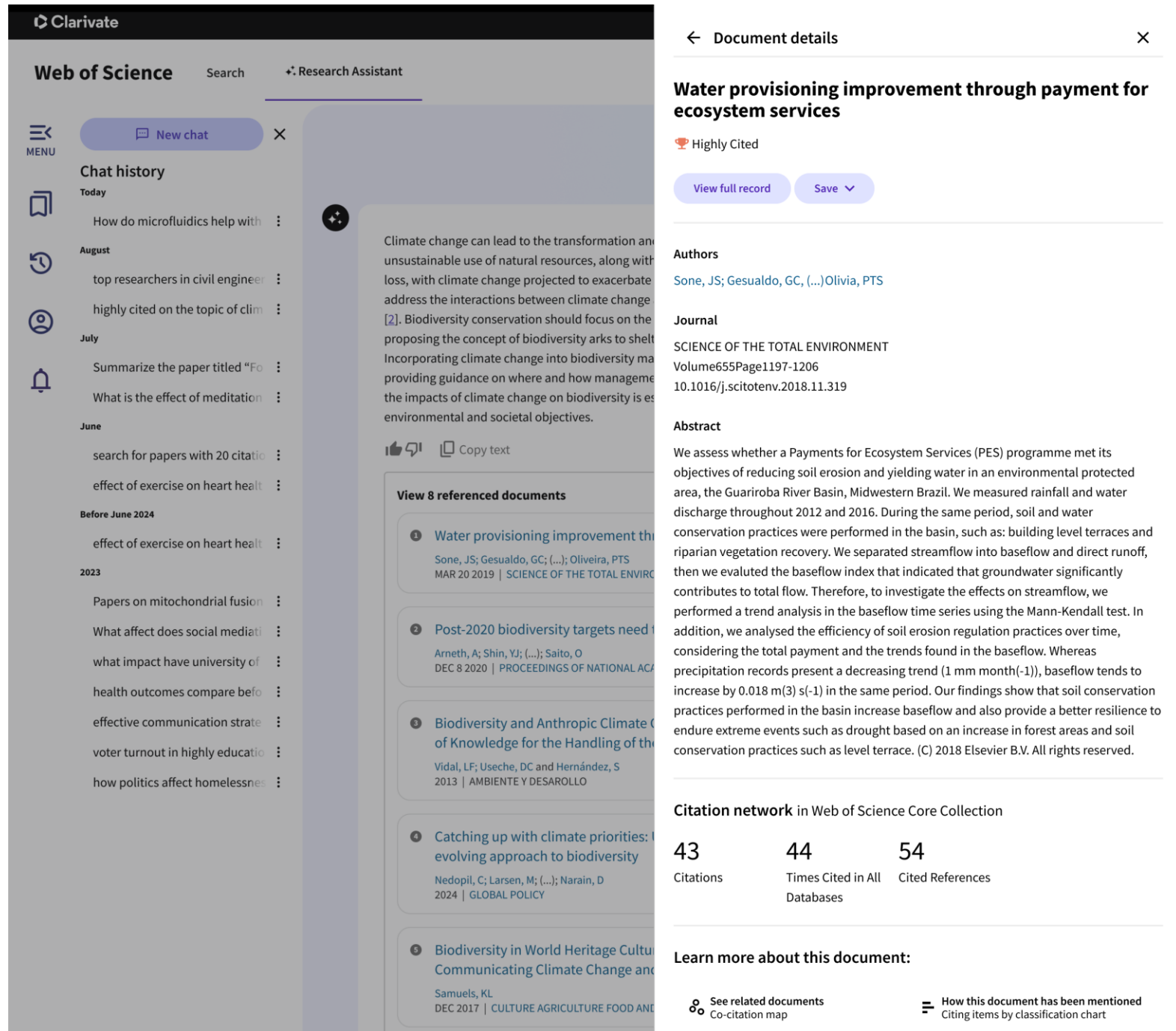
Review queries before they run
See how a question is interpreted, including proposed terms, concepts and logic.

See how results were generated
View the fully structured query behind the response so you can document and share it.

Access the complete results set
Click through to start browsing, refining, or exporting the full set of results.

Faster, simpler research discovery

- ✓ Natural language, multilingual search
- ✓ Concise, referenced overviews in your search language
- ✓ Verifiable responses for transparency
- ✓ Over 120 years of research in scope



Web of Science Search **Research Assistant**

Chat history

Today

- How do microfluidics help with ...

August

- top researchers in civil engineer ...
- highly cited on the topic of clim ...

July

- Summarize the paper titled "Fo ...
- What is the effect of meditation ...

June

- search for papers with 20 citatio ...
- effect of exercise on heart healt ...

Before June 2024

- effect of exercise on heart healt ...

2023

- Papers on mitochondrial fusion ...
- What affect does social mediati ...
- what impact have university of ...
- health outcomes compare befo ...
- effective communication strate ...
- voter turnout in highly educatio ...
- how politics affect homelessness ...

Chat window:

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 shelter Incorporating climate change into biodiversity management providing guidance on where and how manage the impacts of climate change on biodiversity is environmental and societal objectives.

View 8 referenced documents

- Water provisioning improvement through payment for ecosystem services**
Sone, JS; Gesualdo, GC; (...); Oliveira, PTS
MAR 20 2019 | SCIENCE OF THE TOTAL ENVIRONMENT
- Post-2020 biodiversity targets need to be ambitious**
Arneth, A; Shin, YJ; (...); Saito, O
DEC 8 2020 | PROCEEDINGS OF NATIONAL ACADEMY OF SCIENCES
- Biodiversity and Anthropogenic Climate Change: A Review of Knowledge for the Handling of the Risk**
Vidal, LF; Useche, DC and Hernández, S
2013 | AMBIENTE Y DESARROLLO
- Catching up with climate priorities: An evolving approach to biodiversity**
Nedopil, C; Larsen, M; (...); Narain, D
2024 | GLOBAL POLICY
- Biodiversity in World Heritage Cultural Landscapes: Communicating Climate Change and Resilience**
Samuels, KL
DEC 2017 | CULTURE AGRICULTURE FOOD AND RURAL DEVELOPMENT

Document details

Water provisioning improvement through payment for ecosystem services

Highly Cited

[View full record](#) [Save](#)

Authors

Sone, JS; Gesualdo, GC, (...)Oliveira, PTS

Journal

SCIENCE OF THE TOTAL ENVIRONMENT
Volume655Page1197-1206
10.1016/j.scitotenv.2018.11.319

Abstract

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 Guaririba 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 m³ 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.

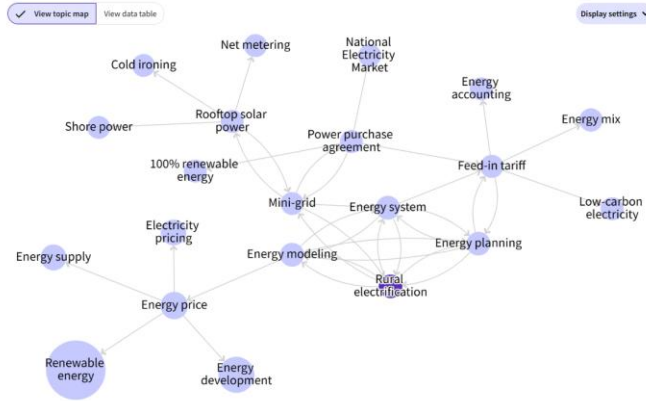
Citation network in Web of Science Core Collection

43	44	54
Citations	Times Cited in All Databases	Cited References

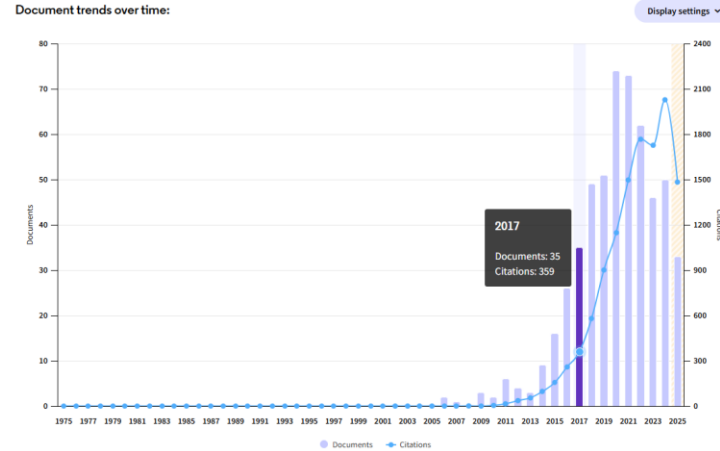
Learn more about this document:

-  See related documents
Co-citation map
-  How this document has been mentioned
Citing items by classification chart

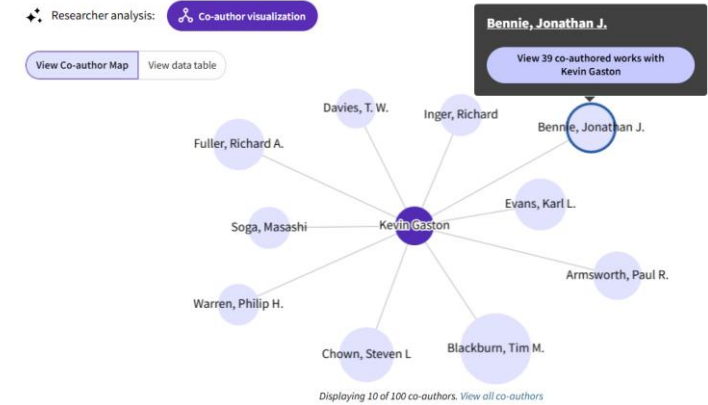
Uncover meaningful connections with dynamic visualizations



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

Simplify Profile Management

Web of Science Researcher Profiles

The screenshot displays a Web of Science Researcher Profile for Jennifer Villwock. The profile includes a header with the Clarivate logo, a search bar, and a user profile dropdown. The main content area is divided into several sections:

- Author Information:** Jennifer Villwock, Highly Cited, Top Peer Reviewer, University of Kansas - Medical Center - Kansas City, KS USA, Web of Science Researcher ID: I-4189-2019.
- Published Names:** Villwock, Jennifer A., Villwock, Jennifer, Villwock, J.A., Villwock, J. (Show more)
- Organizations:** 2010-2019 University of Kansas, 2018-2019 University of Kansas Medical Center, 2013-2015 State University of New York (SUNY) Upstate Medical Center (Show more)
- Other Identifiers:** <https://orcid.org/0000-0002-1443-9432> (See more)
- Metrics:** Publication Metrics: 7 H-index, 22 Total Publications, 184 Sum of Times Cited, 170 Citing Articles. Peer Review Metrics: 31 Verified Reviews, 8 Verified Editor Records. (VIEW CITATION REPORT)
- Author Impact Beamplot Summary:** A horizontal bar chart showing the citation percentile range for the author's publications (1980-2019). The author's percentile range is approximately 25-75, and the median citation percentile is around 50. (VIEW FULL BEAMPLOT)
- Author Position:** A horizontal bar chart showing the percentage of publications where the author is the first (82%), last (14%), or corresponding (64%) author.
- Author Network:** Top Co-Authors: Goyal, David (5), Villwock, Mark B. (5), Deshaies, Eric M. (4), Hamill, Chelsea S. (4), Jones, Kristin A. (3).
- PUBLICATIONS (22):** Summary of Journals the author has published in: 17 Knowledge-Based Systems, 13 Expert Systems with Applications, 10 IEEE Access, 6 Applied Intelligence, 6 Soft Computing, 16 Neural Computing and Applications, 12 Applied Soft Computing, 9 Evolutionary Algorithms and Neural Netwo..., 6 Archives of Computational Methods, 5 Advances in Engineering Software. (VIEW AS SET OF RESULTS)
- 22 Publications from the Web of Science Core Collection:** A list of publications, including "Beyond the USMLE: The STAR Algorithm for Initial Residency Applicant Screening and Interview Selection" (Villwock, Jennifer A.; I. J. Sale, Keith A., May 2008 | Journal Of Surgical Research) with 2 Times Cited.

- Showcase publications, preprints, post-graduate work, citation metrics, peer reviews, and journal editing work in one open, easy-to-maintain profile.
- Gain visibility with less effort by managing a profile offering comprehensive ORCID integration.
- Save time finding experts in any research area with new search and filter options.

Personalized Dashboard

Contextual recommendations based on published content and searches

Profile summary and quick links
Complete tasks quicker

Latest alerts
Keep up to date with recent developments
in your field

Content recommendations
Expand your research horizons

The dashboard is titled "Welcome back, Philip!" and includes a "View my researcher profile" link. It features a "Metrics at-a-glance" section with four cards: "Sum of Times Cited" (0), "H-index" (0), "Publications in Web of Science" (0), and "Citing Articles" (0). A "Quick links" section on the right includes "Add publications", "Add peer reviews", "Export My CV", and "Web of Science Academy". Below the metrics are "Latest alerts" (last updated: Aug 14, 2023, 9:04 AM) and "Recent searches" (last updated: Aug 14, 2023, 11:08 AM). The "Latest alerts" section lists five alerts, each with a date and a brief description of a new citation or content. The "Recent searches" section lists three searches, each with a topic and a link to view results. Below these are "Recommended for you" articles and "Conferences" recommended by Pivot-RP. The "Articles" section is titled "Based on your search history, we thought you might find these interesting" and lists six articles with titles, authors, and publication dates. The "Conferences" section is titled "Browse through conference recommendations provided by Pivot-RP" and lists six conferences with titles, dates, and locations. Each article and conference card includes a "View Record" or "View event" link.

Search history
Jump back into your research project

Conference recommendations*
*requires Pivot-RP subscription

Demo



Additional Resources

- [Clarivate Resources LibGuide Page - Arabic](#)
- [Clarivate Resources Training and Informative Materials - English](#)



Think forward

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About Clarivate

Clarivate is a leading global provider of transformative intelligence. We offer enriched data, insights & analytics, workflow solutions and expert services in the areas of Academia & Government, Intellectual Property and Life Sciences & Healthcare. For more information, please visit clarivate.com.

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