Clarivate™

Enhance Your Research Capability by Web of Science and Journal Citation Reports

官欣瑩 Renee Guan
Strategic Customer Success Consultant, Clarivate

Clarivate™

Promote Information Literacy and Streamline Research Discovery

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

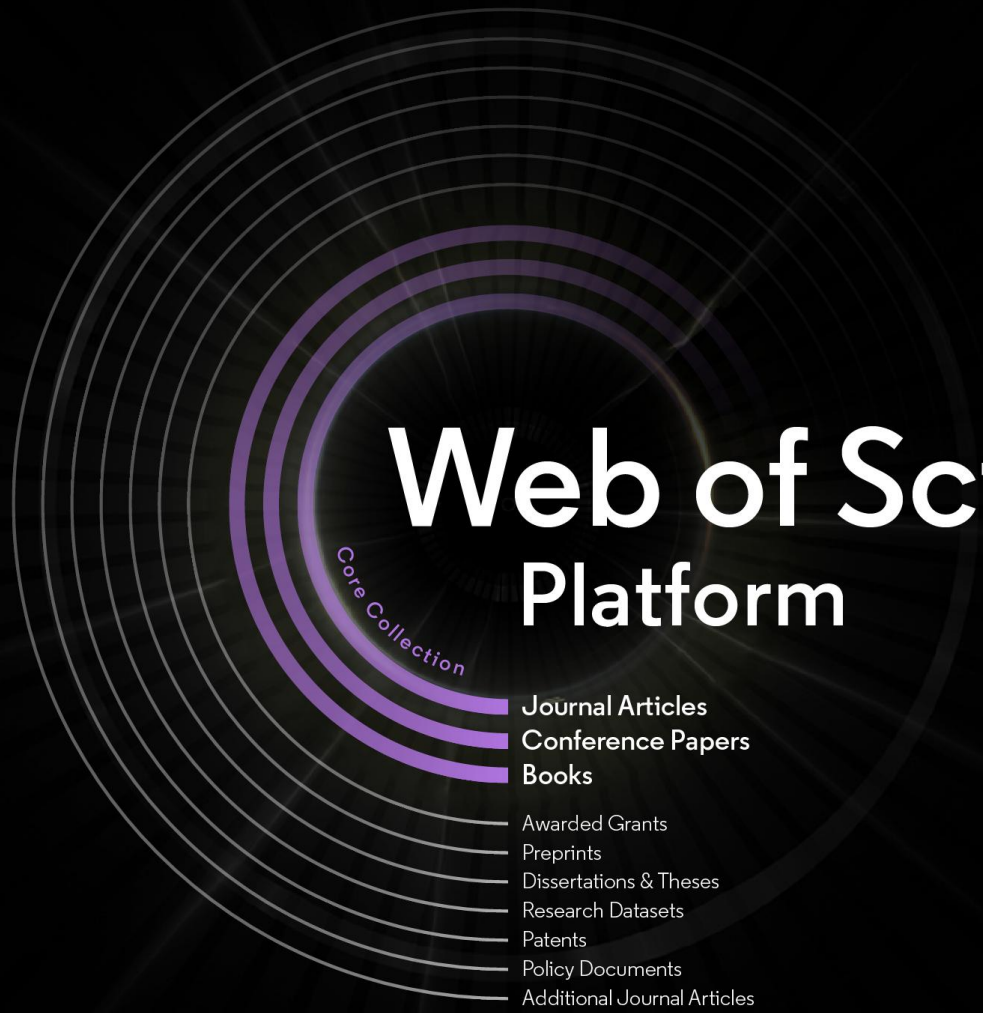
- Over 4 million articles are published annually[1].
- On average, scientists read 264 articles per year[2].
- The number of predatory journals has increased.

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

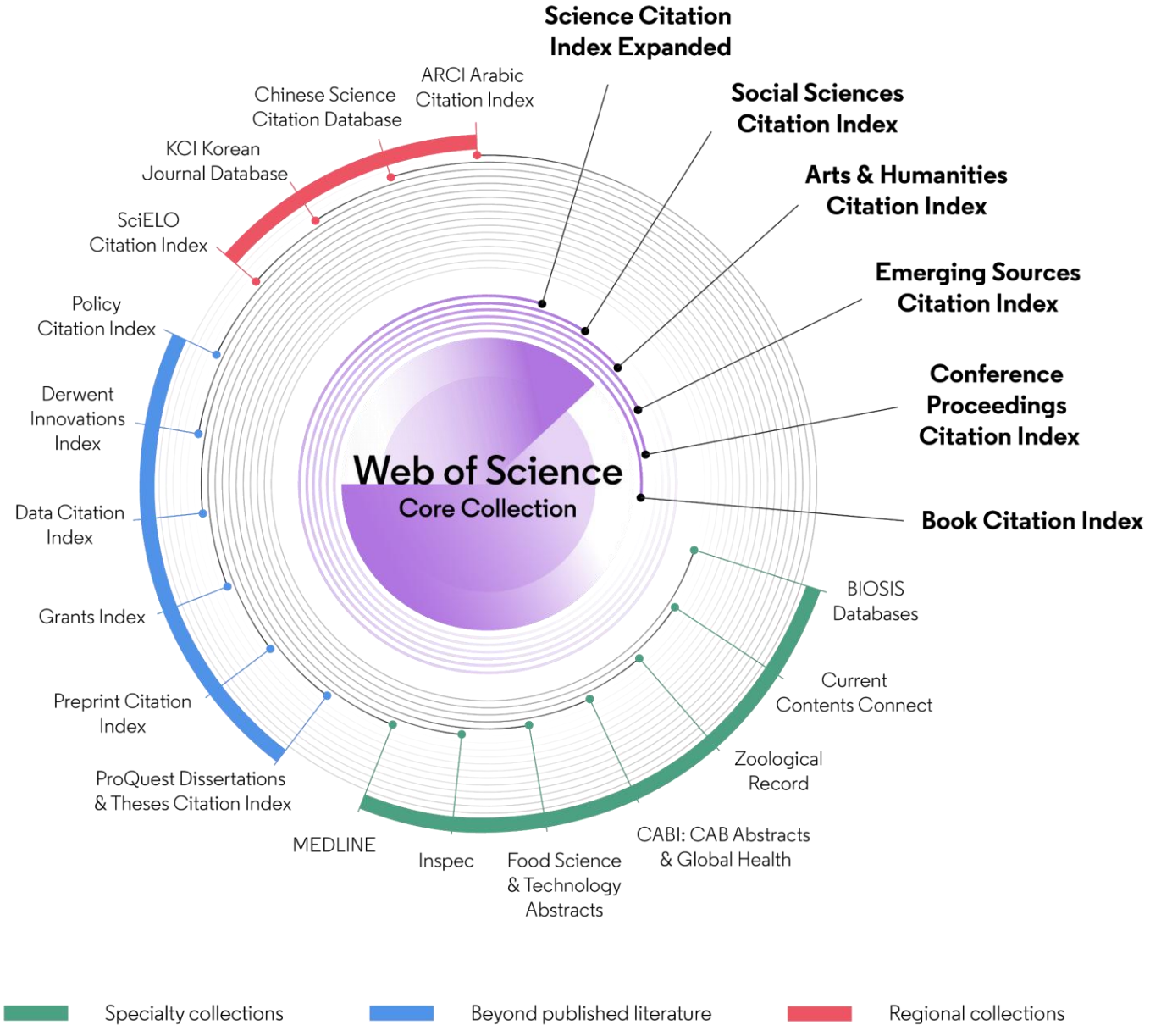
Pinpoint relevant research with the Web of Science Core Collection

[1] 2021 STM Report

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



Web of Science Platform



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

Clarivate™

Preprint Citation Index

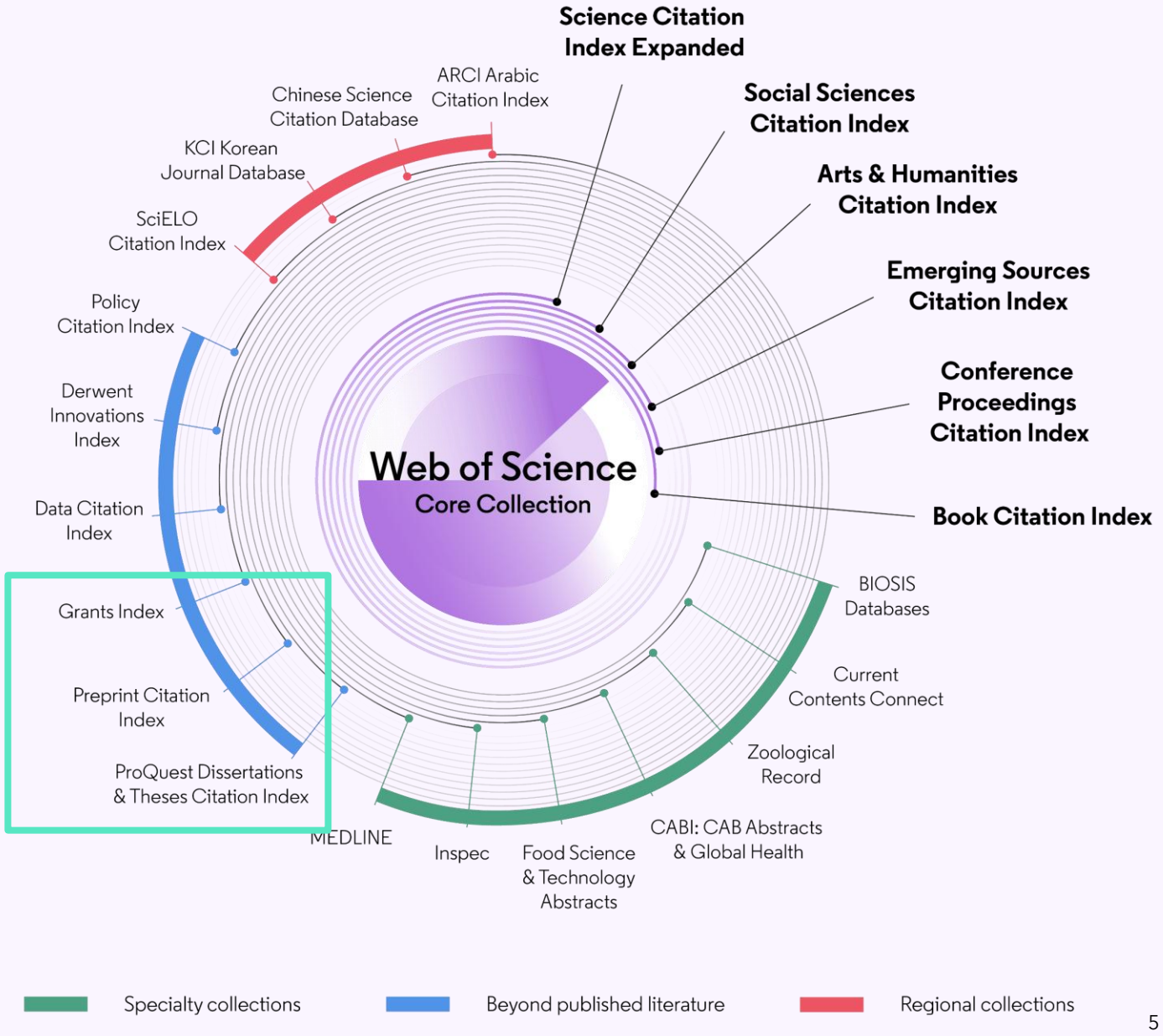
- The research outputs of scientists, before being formally published, that are voluntarily made available on the internet for the purpose of sharing with peers.
- Tracking similar research topics and R&D progress.

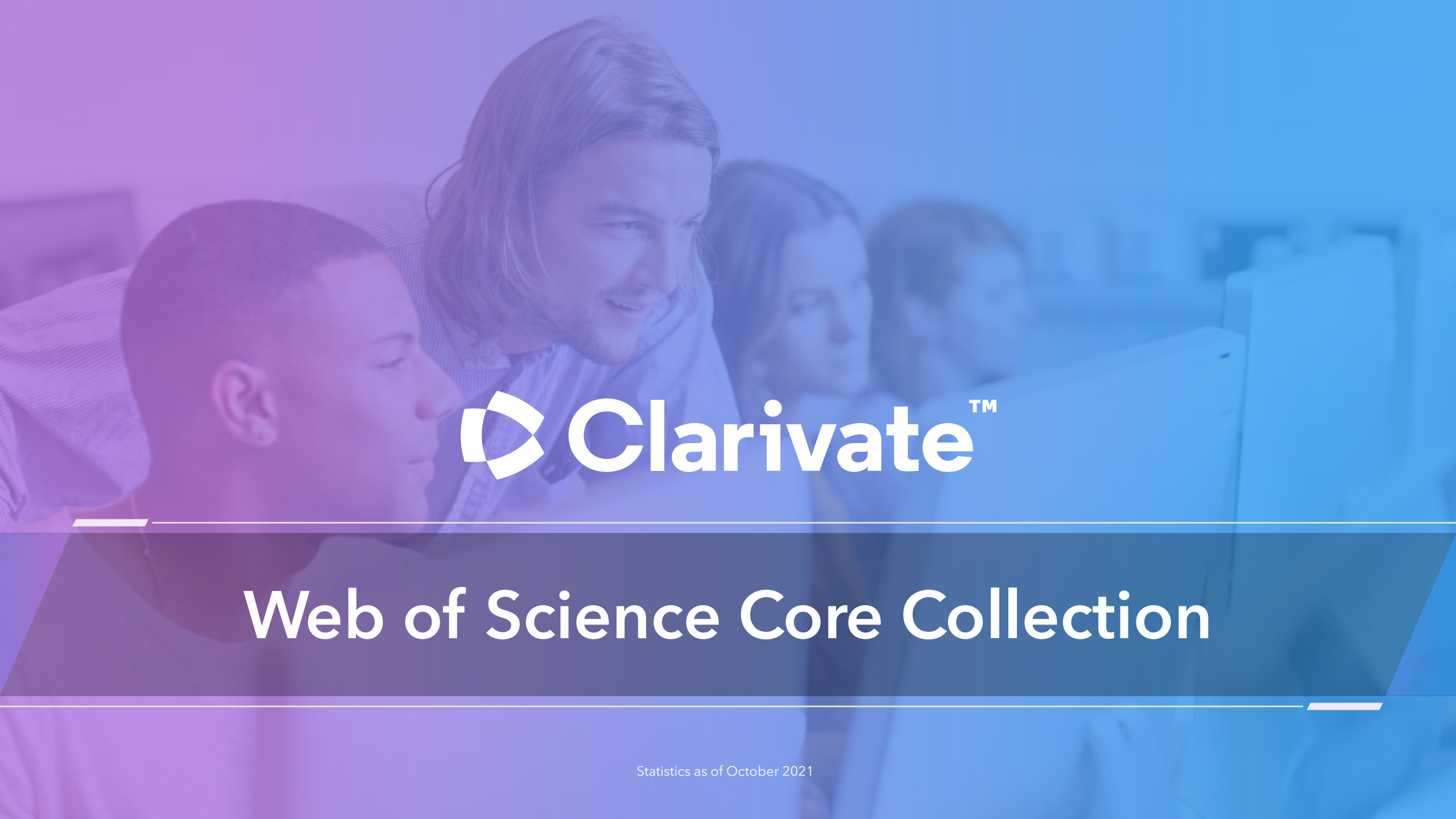
ProQuest Dissertations & Theses Citation Index

- 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..





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Web of Science Core Collection

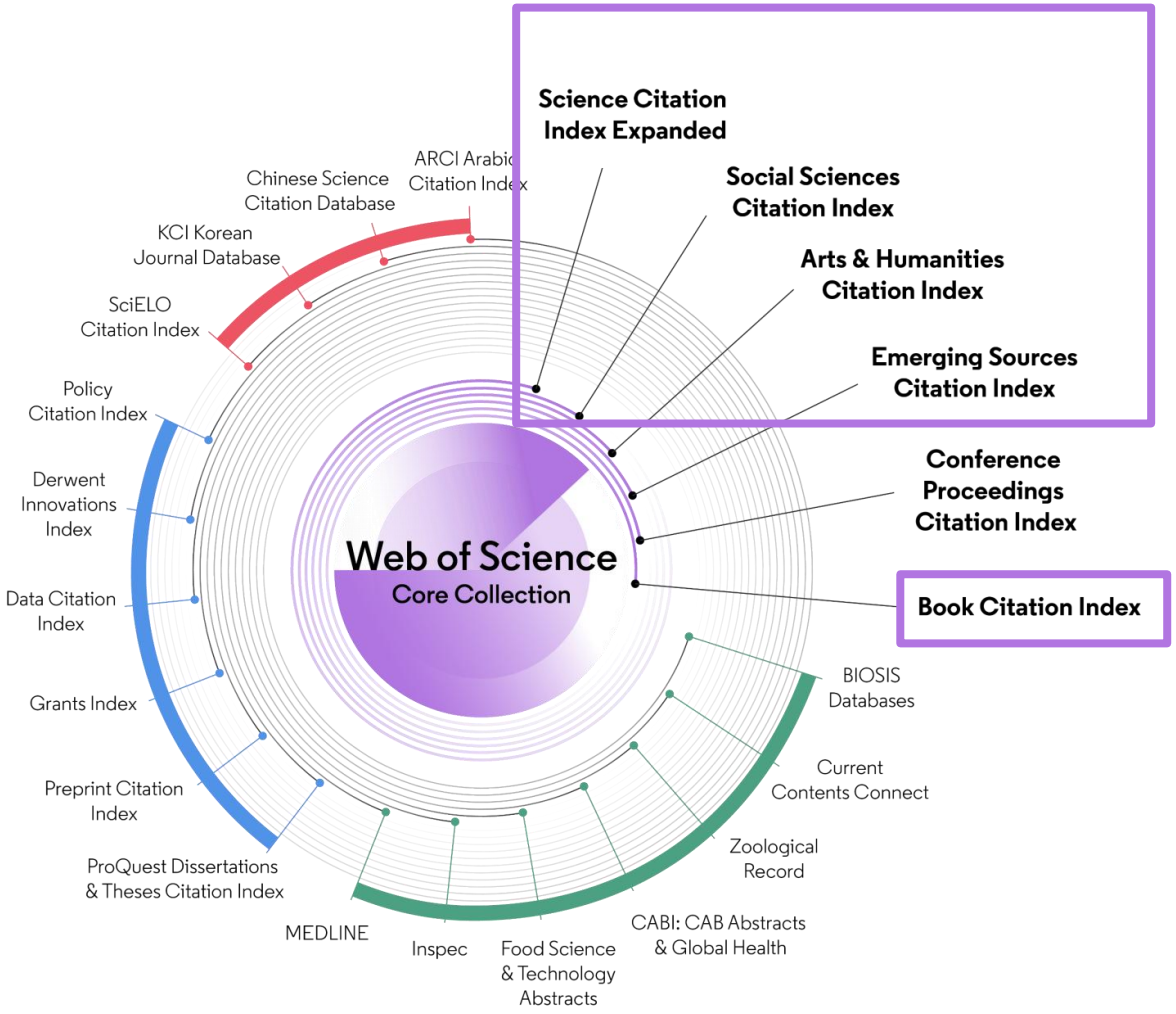
Statistics as of October 2021

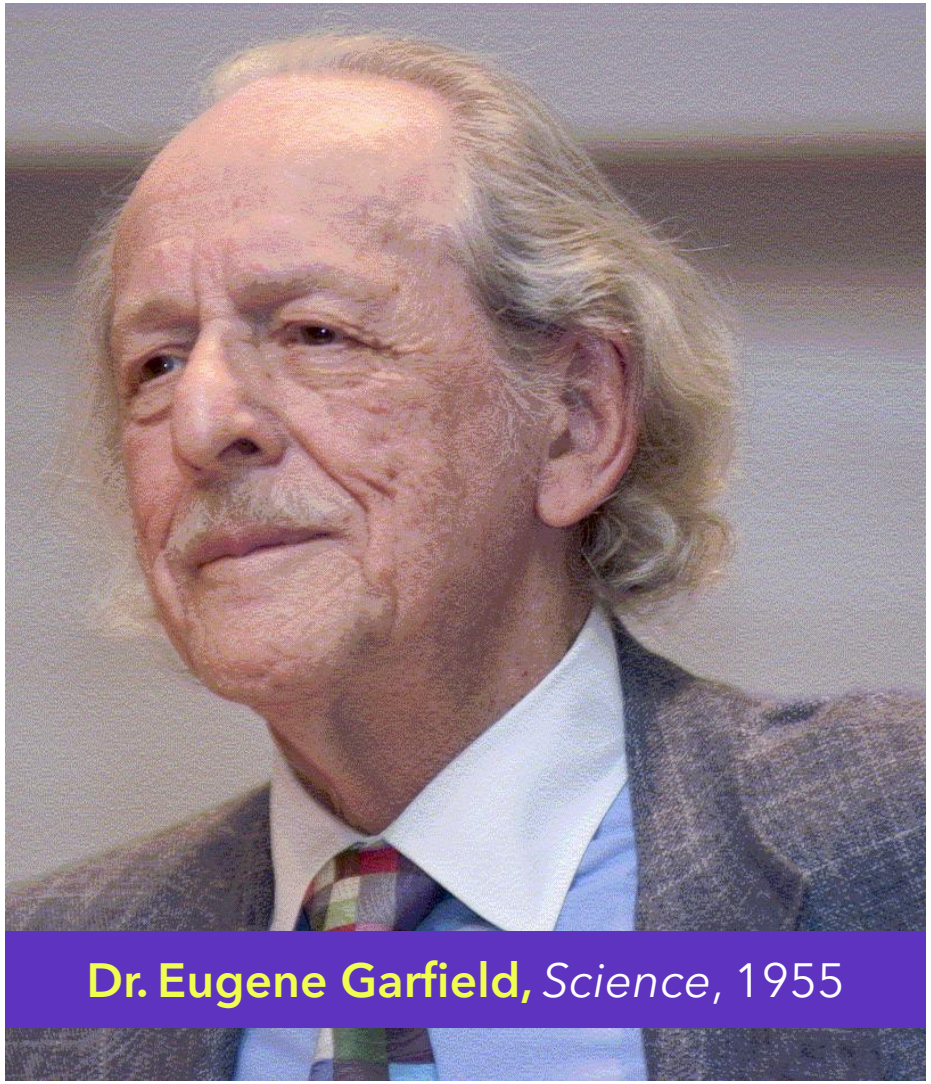
The rigorous journal selection criteria ensure the quality control of academic resources.

- 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

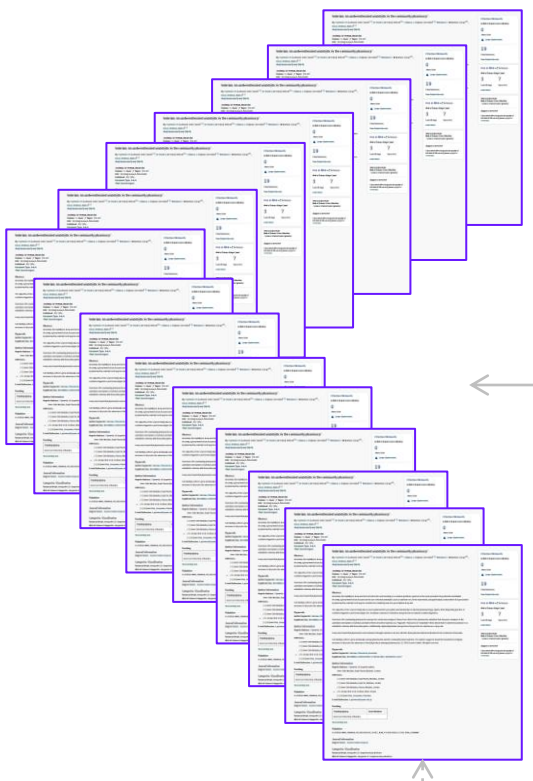
…a citation index…tends to bring together material that would never be collated by the usual subject indexing. It is best described as an association-of-ideas index…"

Citations: Giving life to scientific literature

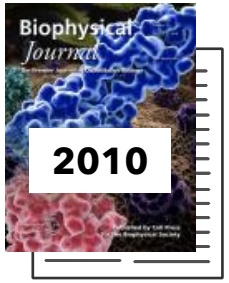
Accurate and Comprehensive Research Data Network

Uncover Hidden Connections

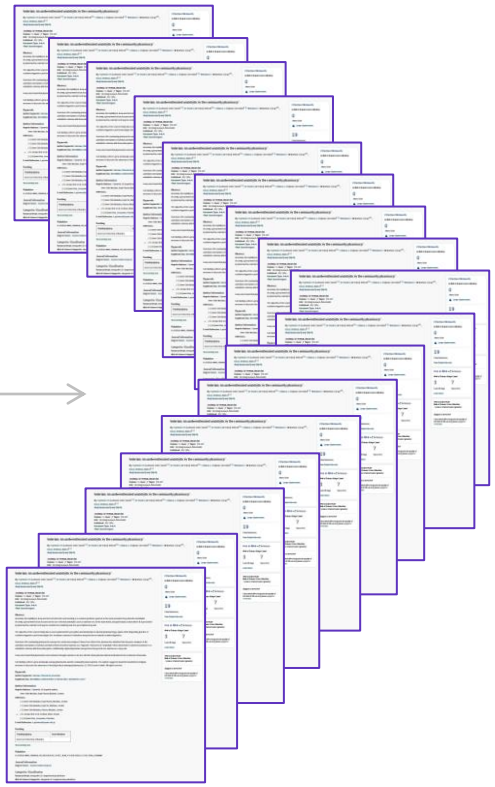
Navigate an interconnected web of multidisciplinary research to locate papers relevant to your work.



Cited References



Citing Articles



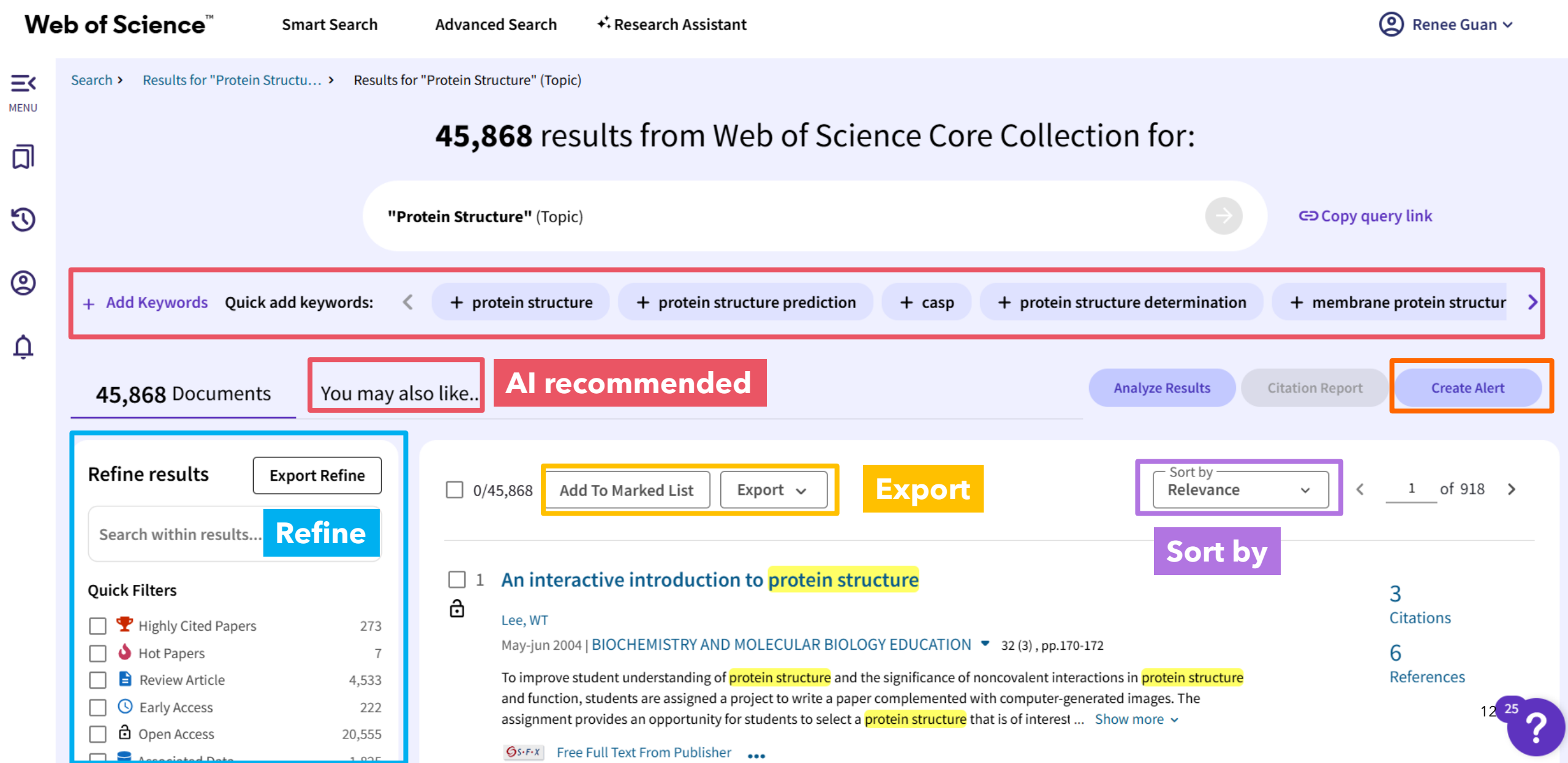
Related Records

Papers that cite some of the same research

Understand how to access WoS

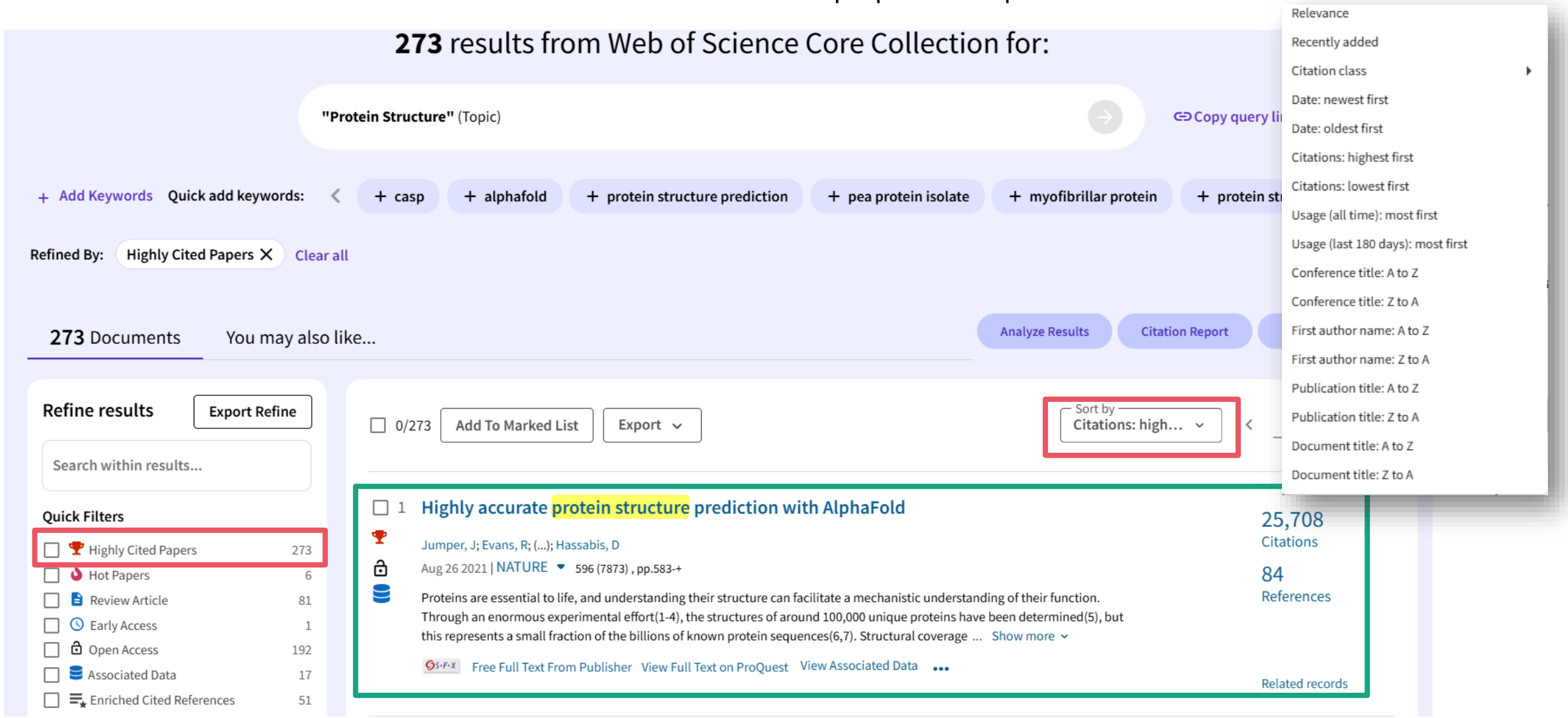
Searching " Protein Structure" in Web of Science

45,868 articles???!!!! How to read these papers?



A Simple Tip for Selecting High-Impact Papers: Citations: highest first

Citations are the most direct and formal indicator of a paper's impact



Quickly Identify Key Literature Through Citations

Utilize citation networks to trace the development of a topic

Highly accurate protein structure prediction with AlphaFold

Highly Cited Paper

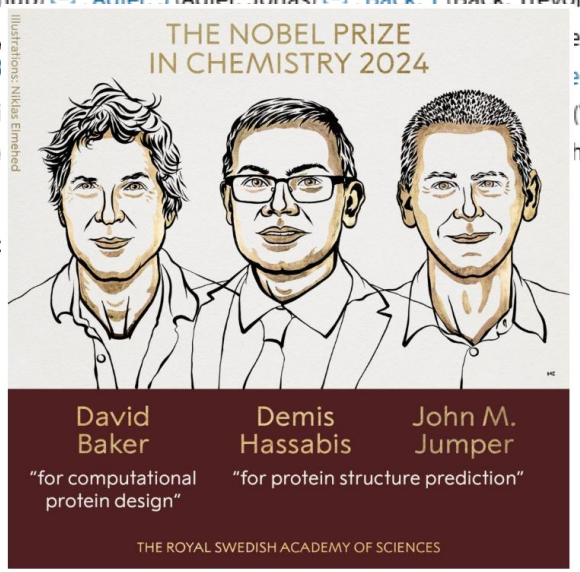
Associated Data

By

Are you this author?

Jumper, J (Jumper, John) [1] ; Evans, R ; Figurnov, M (Figurnov, Michael) [1] ; R (Tunyasuvunakool, Kathryn) [1] ; Bates Anna) [1] ; Bridgland, A (Bridgland, Ale AJ (Ballard, Andrew J.) [1] ; Cowie, A (Cowie, Andrew) [1] ; Romera-Paredes, B (Romera-Paredes, Bernardino) [1] ; Nikolov, S (Nikolov, Stanislav) [1] ; Jain, R (Jain, Rishub) [1] ; Adler, J (Adler, Jonas) [1] ; Back, T (Back, Trevor) [1] ; Petersen, S (Petersen, Stig) [1] ; Reiman, D (Reiman, elinski, Michal) [1] ; Steinegger, M (Steinegger, Martin) [2] , [3 er, T (Berghammer, Tamas) [1] ; Bodenstein, S (Bodenstei (Vinyals, Oriol) [1] ; Senior, AW (Senior, Andrew W.) [1] ; Kavuk hmeet) [1] ; Hassabis, D (Hassabis, Demis) [1] ...Less

View Web of Science ResearcherID and ORCID (pro



Source

NATURE

Volume: 596 Issue: 7873 Page: 583-+

DOI: 10.1038/s41586-021-03819-2

Published

AUG 26 2021

Citation Network

In Web of Science Core Collection

17,927
Citations

Create citation alert

19,452
Times Cited in All Databases

+ See more times cited

View citing preprints

84
Cited References

→ View Related Records

How does this document's citation performance compare to peers?

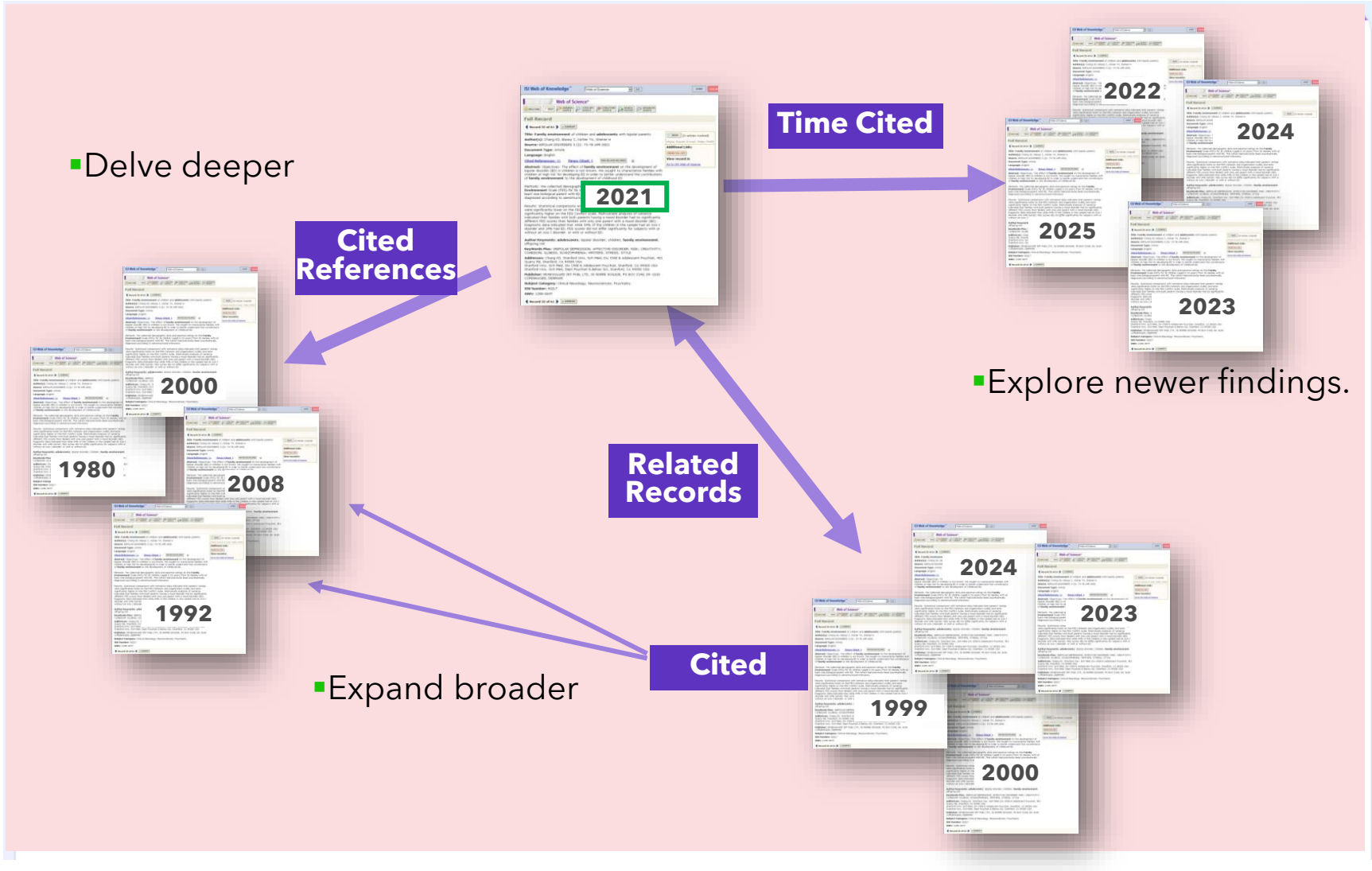
← Open comparison metrics panel New

Data is from InCites Benchmarking & Analytics

Clarivate™

Quickly Identify Key Literature Through Citations

Utilize citation networks to trace the development of a topic



Mining More Research Gems via Citation Networks

Citation Network

In Web of Science Core Collection

17,927 Citations — Create citation alert

19,452 Times Cited in All Databases — + See more times cited — View citing preprints

84 Cited References — → View Related Records

How does this document's citation performance compare to peers?

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Data is from InCites Benchmarking & Analytics

Mining More Research Gems via Citation Networks

Cited References

Citation Network

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19,452 Times Cited in All Databases — + See more times cited — View citing preprints

84 Cited References — → View Related Records

14 **Improved protein structure prediction using potentials from deep learning**

Senior, AW; Evans, R; (...); Hassabis, D

Jan 30 2020 | NATURE ▾ 577 (7792) , pp.

1,736 引用文献

55 参考文献

DeepMind claims that **AlphaFold 2** can identify protein structures within days, a task that previously often took the academic community years to accomplish

相關記錄

23 **Improved protein structure prediction using predicted interresidue orientations**

849 引用文献

Yang, JY; Anishchenko, I; (...); Baker, D

Jan 21 2020 | PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA ▾ 117 (3) , p

30 参考文献

David Baker used a deep residual network and Rosetta software to quickly generate accurate structural models.

相關記錄

51 **Protein structure prediction using multiple deep neural networks in the 13th Critical Assessment of Protein Structure Prediction (CASP13)**

189 引用文献

Senior, AW; Evans, R; (...); Hassabis, D

36 参考文献

UNCTION AND BIOINFORMATICS ▾ 87 (12) , pp.1141-1148

AlphaFold 1 accurately predicted the toughest structures without using templates from similar sequences.

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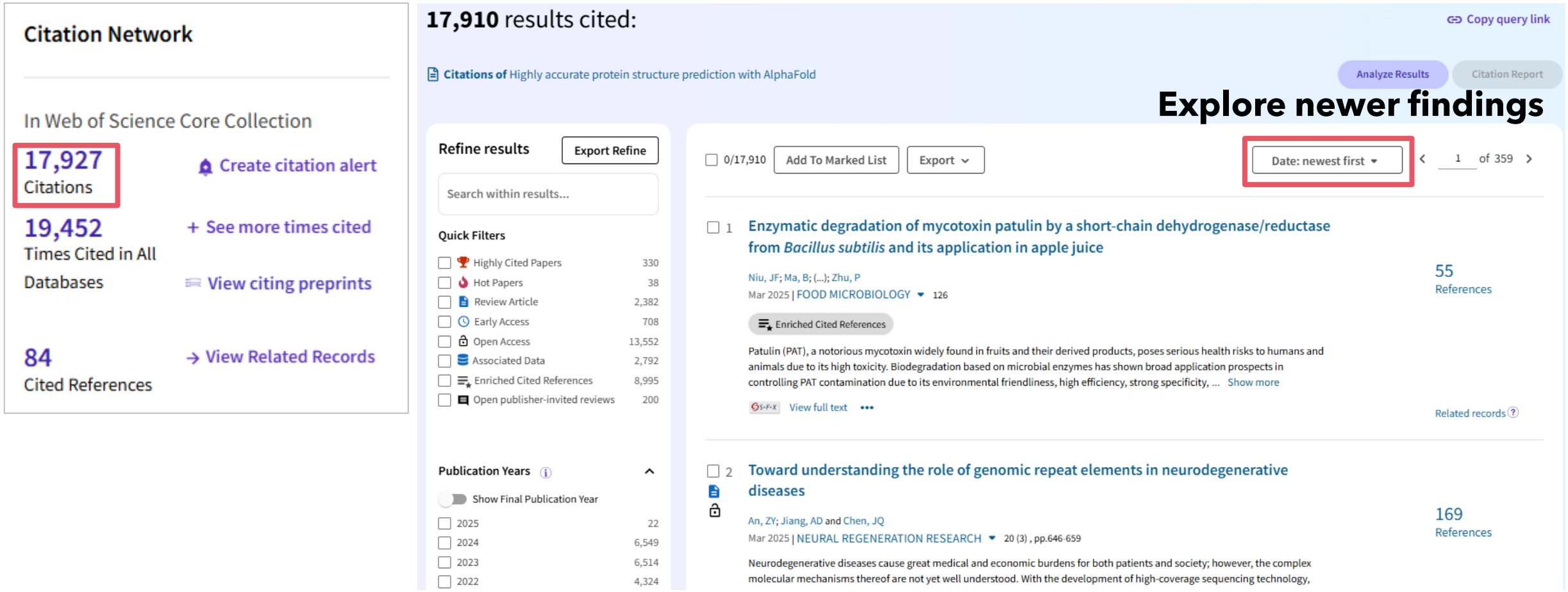
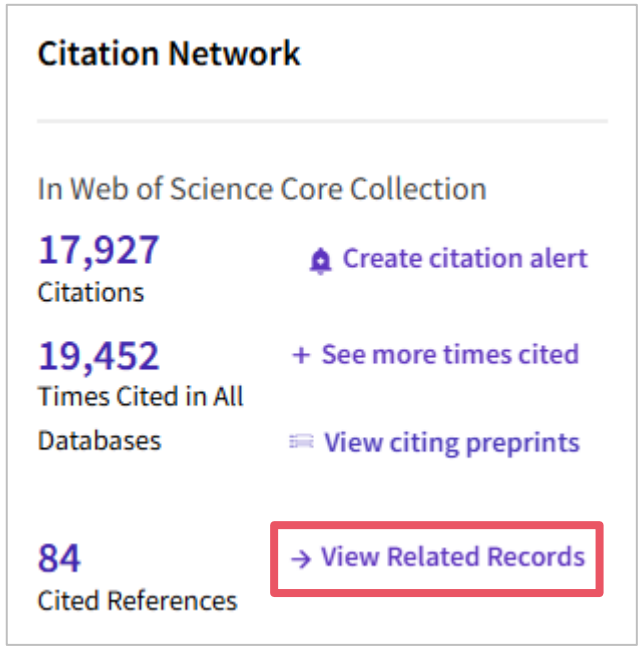
Mining More Research Gems via Citation Networks

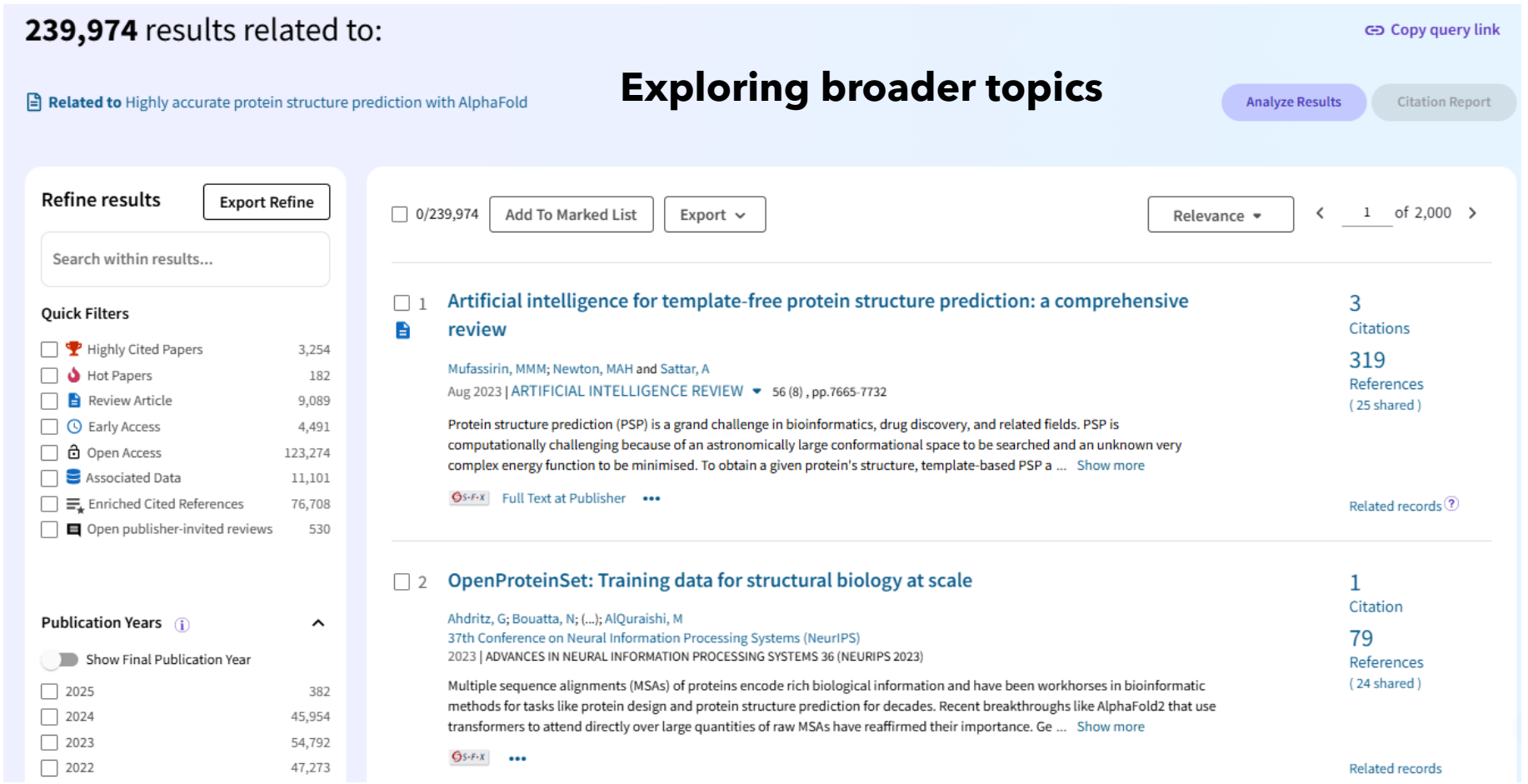
Time Cited



Mining More Research Gems via Citation Networks

Related Records





Strategies for Defining Research Directions

Principles: Scientific Rigor, Innovation, Feasibility, and Applicability

Selecting Topics from **Scientific Frontiers** and **Hotspots**

Selecting Topics by **Extending Existing Research**

Selecting Topics through **Disciplinary Expansion and Interdisciplinary** Development

Selecting Topics from **Unresolved issues** within the Field

Explore the Web of Science Citation Network

Highly impact Papers	The newest papers	Review article	Relevant subject category
Highly Cited Papers **Citation: Highest first**	**Usage** **Publication Year**	**Refine results** **（Document type）**	**Refine results** **（Web of Science Categories、Citation Topics）**

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Web of Science: Analyze Your Research Topics

How to accurately grasp the development direction of a topic?

Which funding bodies support this topic area?

What are the potential interdisciplinary directions for this topic?

How to seek domestic/international collaboration in this field?

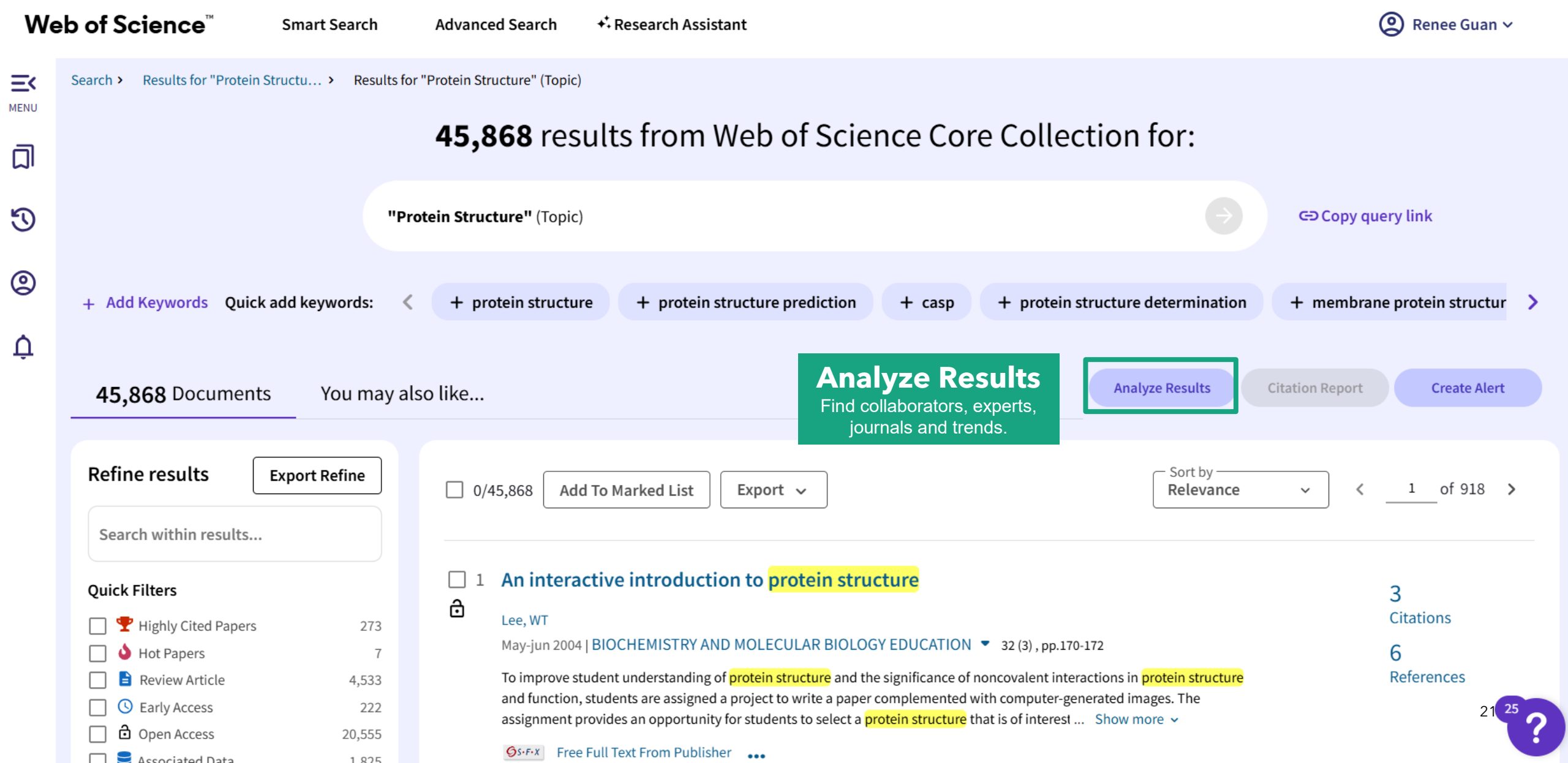
Who are the main researchers in this topic?

How is this field perceived in the domestic context?

…

Research Background Analysis via the Web of Science

Support your research with data analysis



Analyze Results

Looking for collaborators? Journals? Funding?

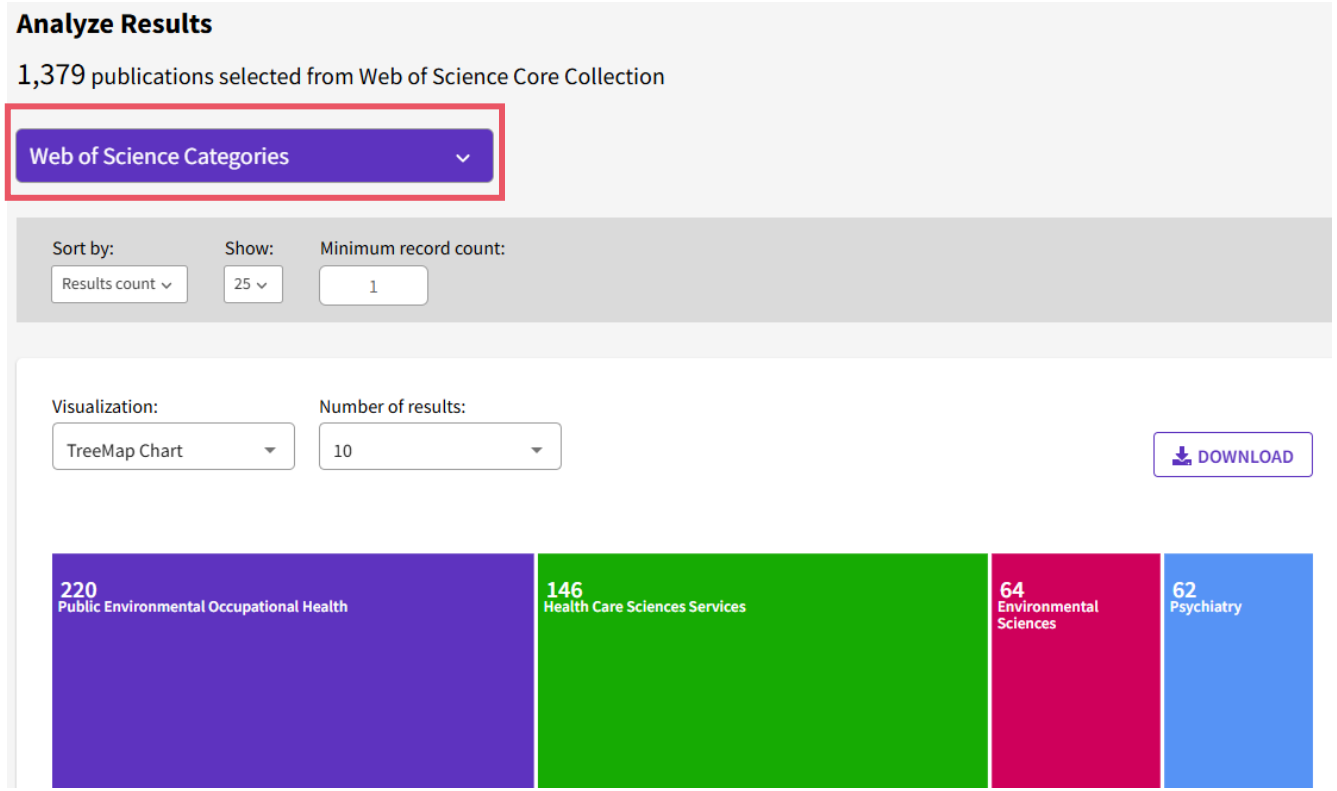
Topic Development Trends

Finding Collaborations and Further Studies

Finding Mentors, Reviewers, and Collaborators

Key Publishing Journals

- Web of Science Categories
- Publication Years
- Final Publication Year
- Document Types
- Researcher Profiles
- Authors
- Web of Science
- Citation Topics Meso
- Citation Topics Micro
- Web of Science Index
- Affiliations
- Publication Titles
- Languages
- Countries/Regions
- Publishers
- Research Areas
- Open Access
- Filter by Marked List
- Funding Agencies
- Grant Numbers
- Conference Titles
- Group Authors
- Book Series Titles
- Editors
- Editorial Notices
- Sustainable Development Goals



Global Trends of the Research Topic

Quick Insights into Local Research and Personnel

Storytelling with Data: Research Overview via Web of Science

In the past ____ years, research on _____ has shown a global trend towards _____, with a significant number of papers coming from _____ (country/region).
Research institutions that have published many papers on the related topics include _____.

Global researchers mainly focus on related issues from fields such as _____, while we also note that research from fields like _____ may offer different perspectives and insights.
The research findings on the related topics are primarily published in journals such as _____. In this area of study, scholars like _____ have contributed to a large number of papers.
The most influential papers are from scholars at _____ (institution) in _____ (country/region).
In the past six months, the _____ direction has garnered more attention from researchers.
We recommend choosing the _____ review literature as a quick entry point for understanding this topic.
The latest research progress indicates that this research direction is currently developing _____.

country/region

Affiliations

Web of Science Category or Citation Topics

Publication Titles

Authors/Research Profiles

Analyze Results

Citation: High first

Usage：Last 180 days

Document type: Review

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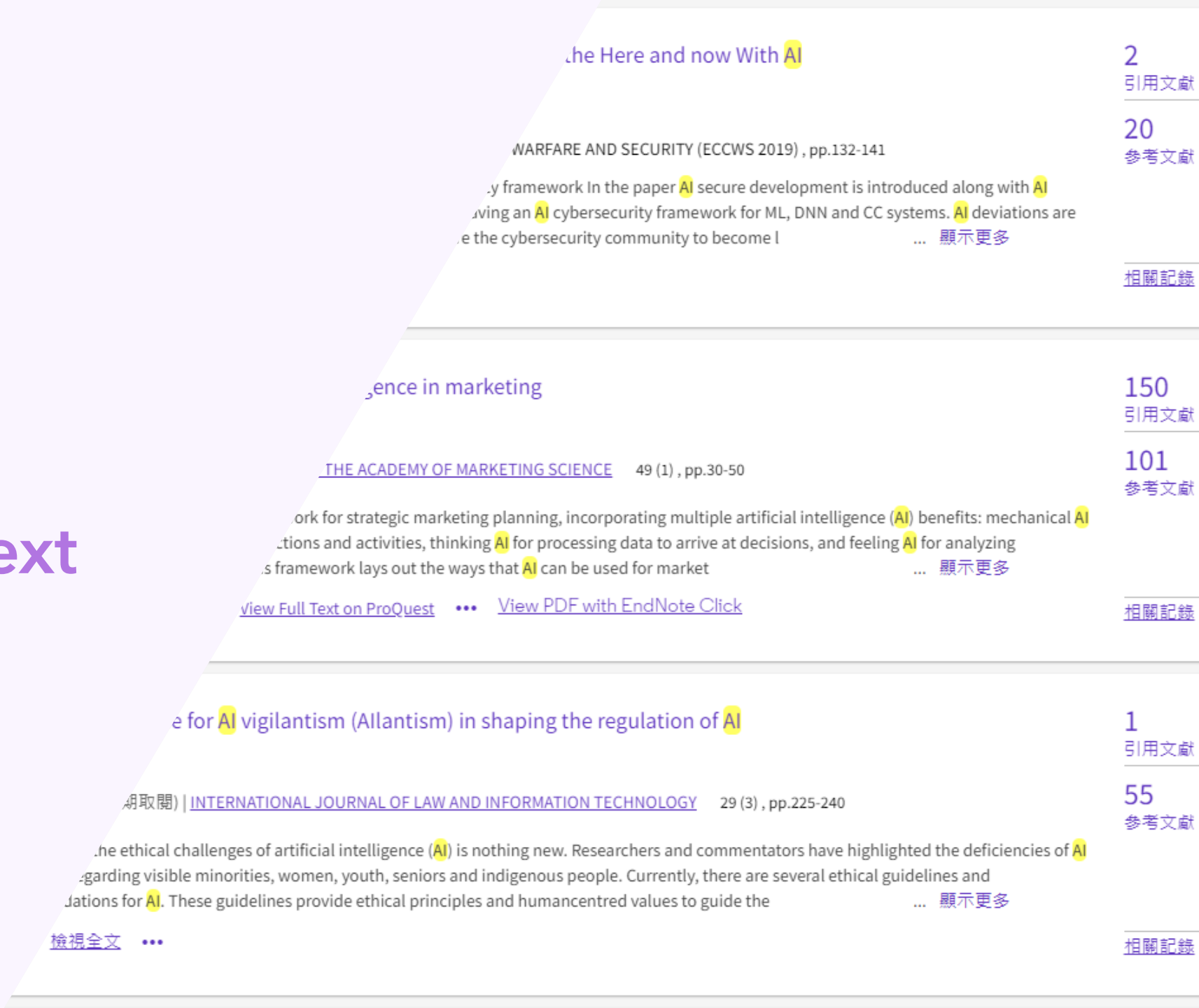
Download Full-text



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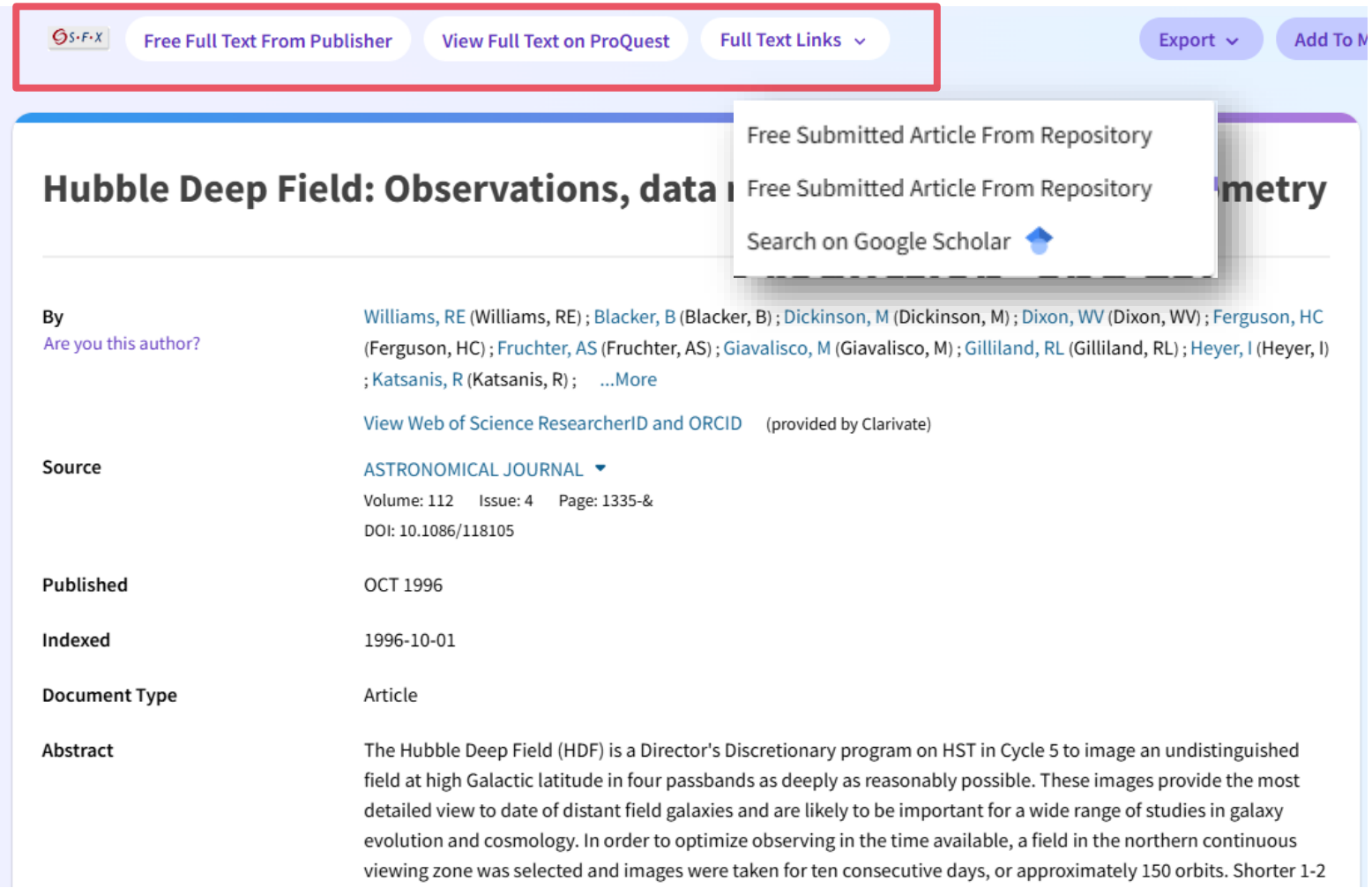
Multiple Ways to Access Full Text

Link Resolver | **From Publisher** | **ProQuest** | **Other Full Text Links**



- Interlibrary loan
- Free full text website
  - http://www.freemedicaljournals.com/
  - http://highwire.Stanford.edj/
- Contact authors

Live Demo
Web of Science

Giving users more choice in the Web of Science

Smart Search

Automatic entity recognition

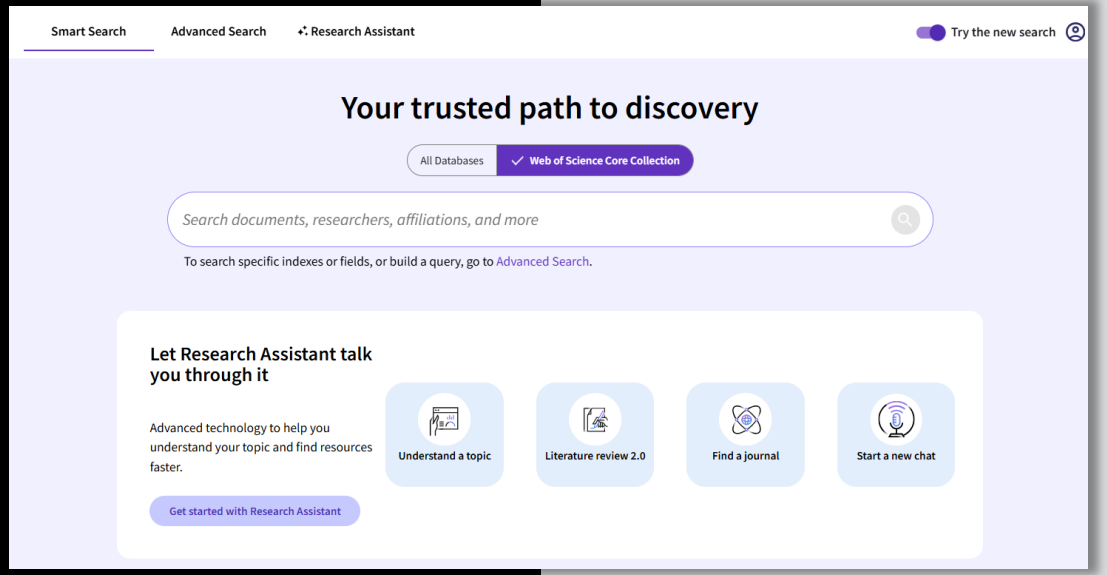
Boolean + semantic

Auto-complete

Spelling correction

Documents and Researchers

Multi-language



Advanced Search

Fielded Search

Boolean only

Query Builder

Cited Reference Search

Researcher Search

Structure Search

Search isn't one size fits all

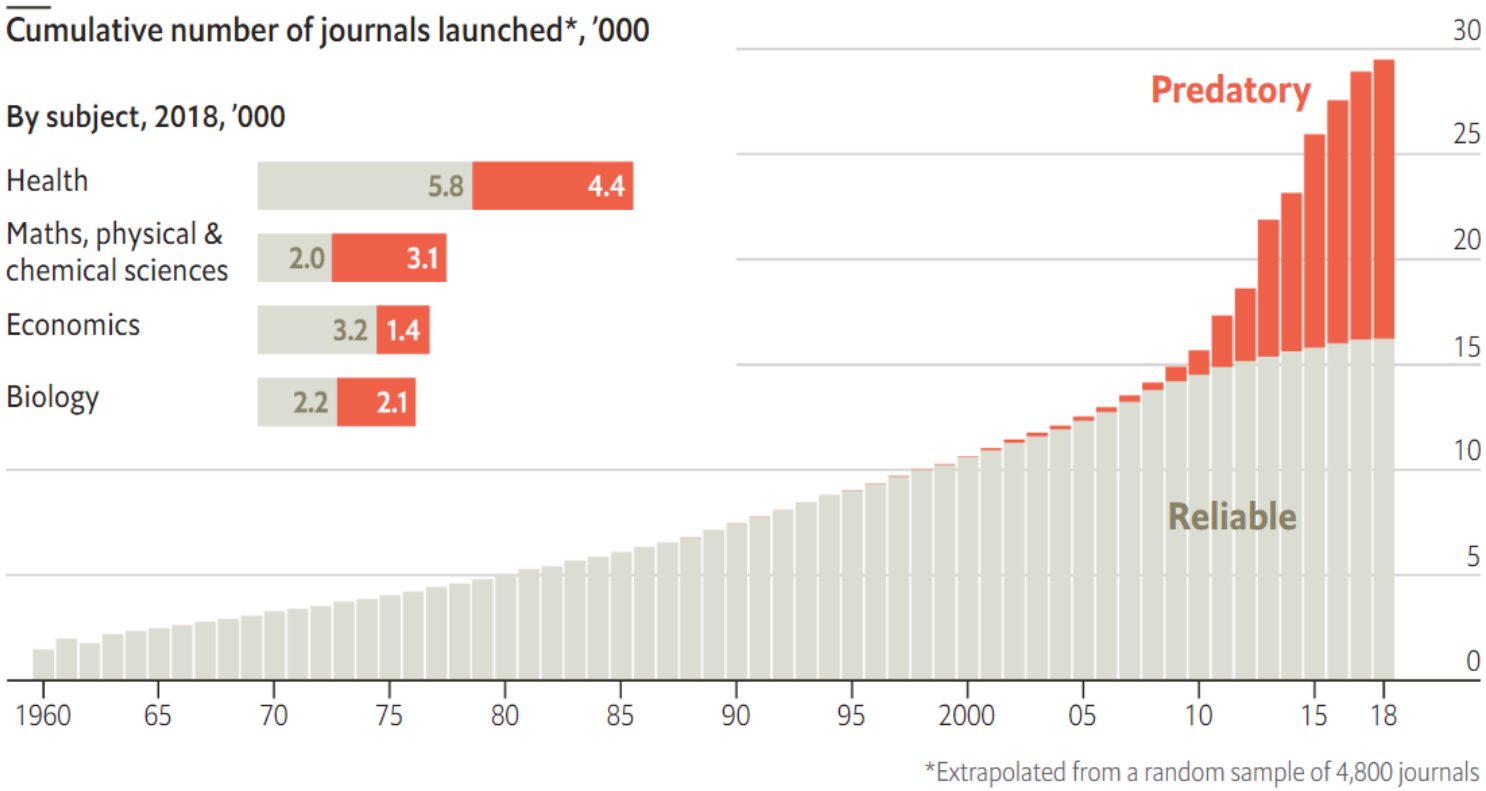
Comparing different Web of Science search experiences

	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

Journal Citation Reports

A database for identifying the influential journals

Questionable publishing practices are on the rise



Source: The Economist, May 2020

Questionable publishing models:

- undermine research integrity and public trust in research
- represent significant waste of research resources

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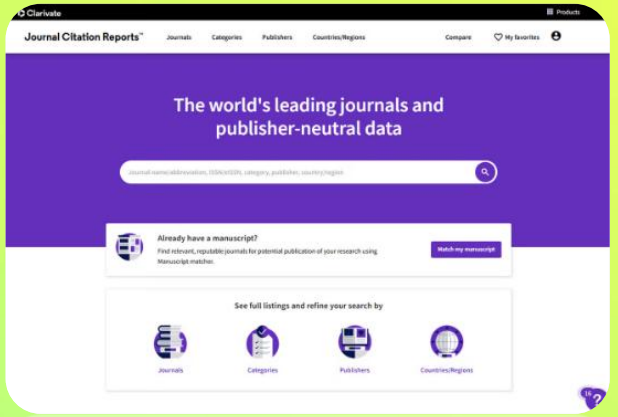
Understanding Journal Citation Reports

The world's leading journals and publisher-neutral data

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.

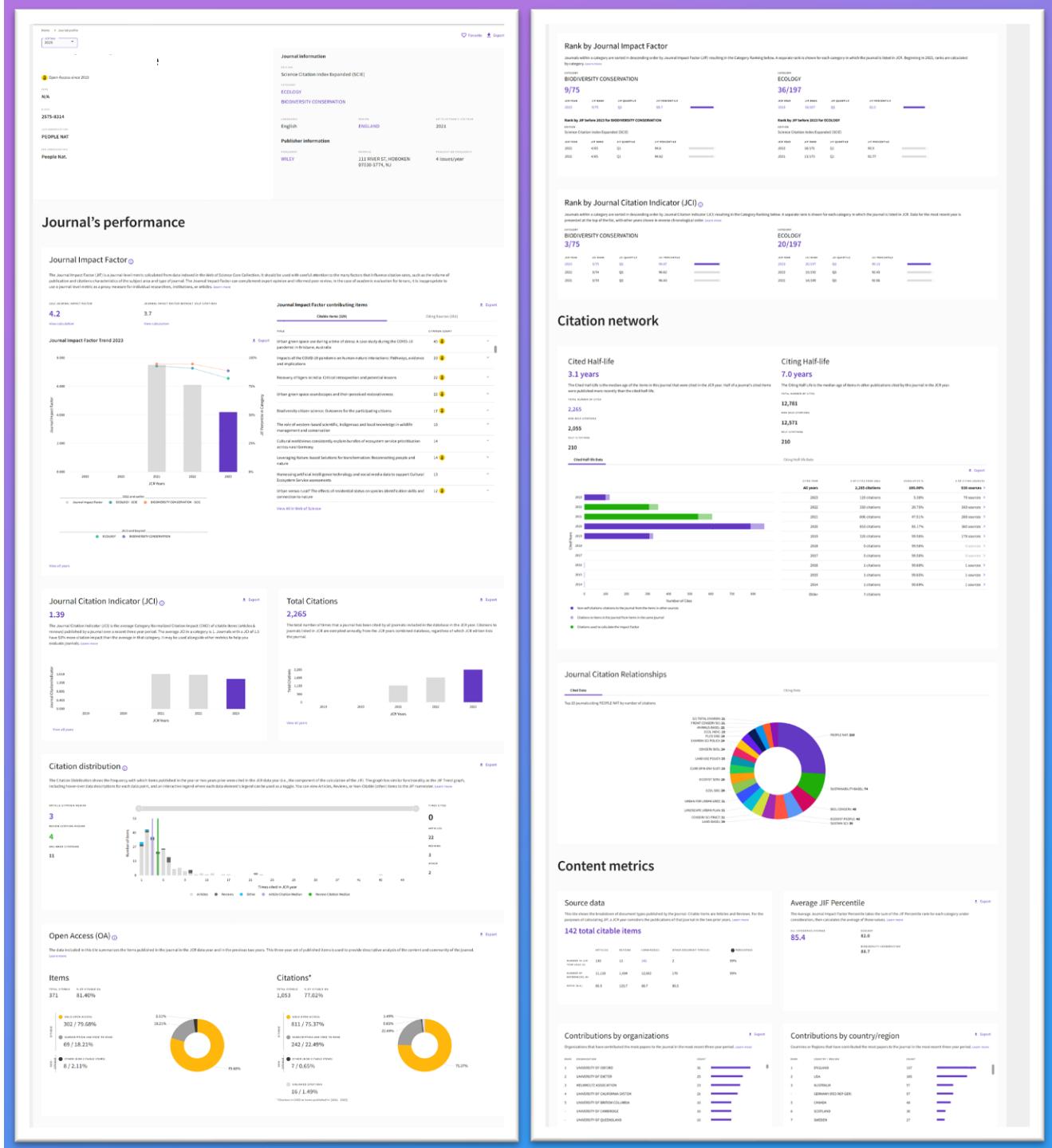
Clarivate™

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.



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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.

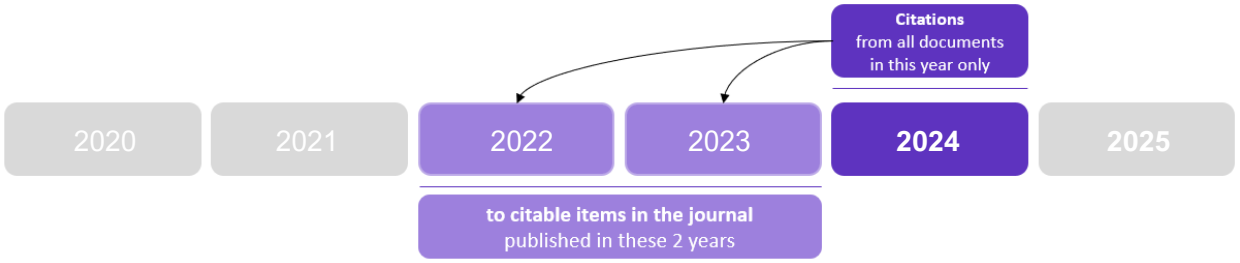
"The *JCR* answers these basic questions… who uses a particular journal? how frequently? for what purposes?"

-Dr. Eugene Garfield

Journal Impact Factor (JIF)

Metric for Journal level

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

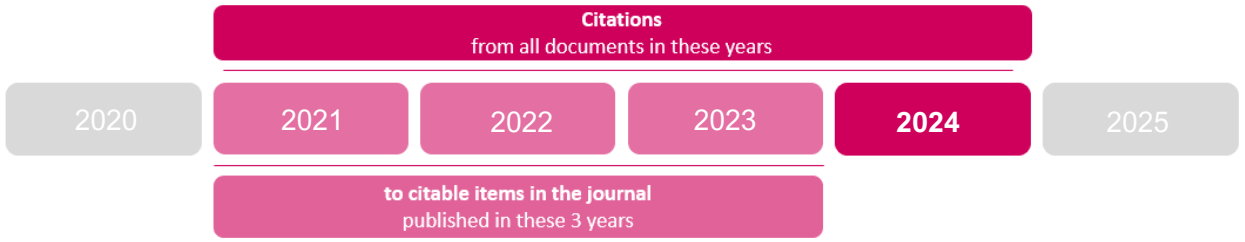


the number of citations a typical article or review received in the JCR year.

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.

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Related metrics with JIF

Journal Citation Reports data

Journal Impact Factor Quartile

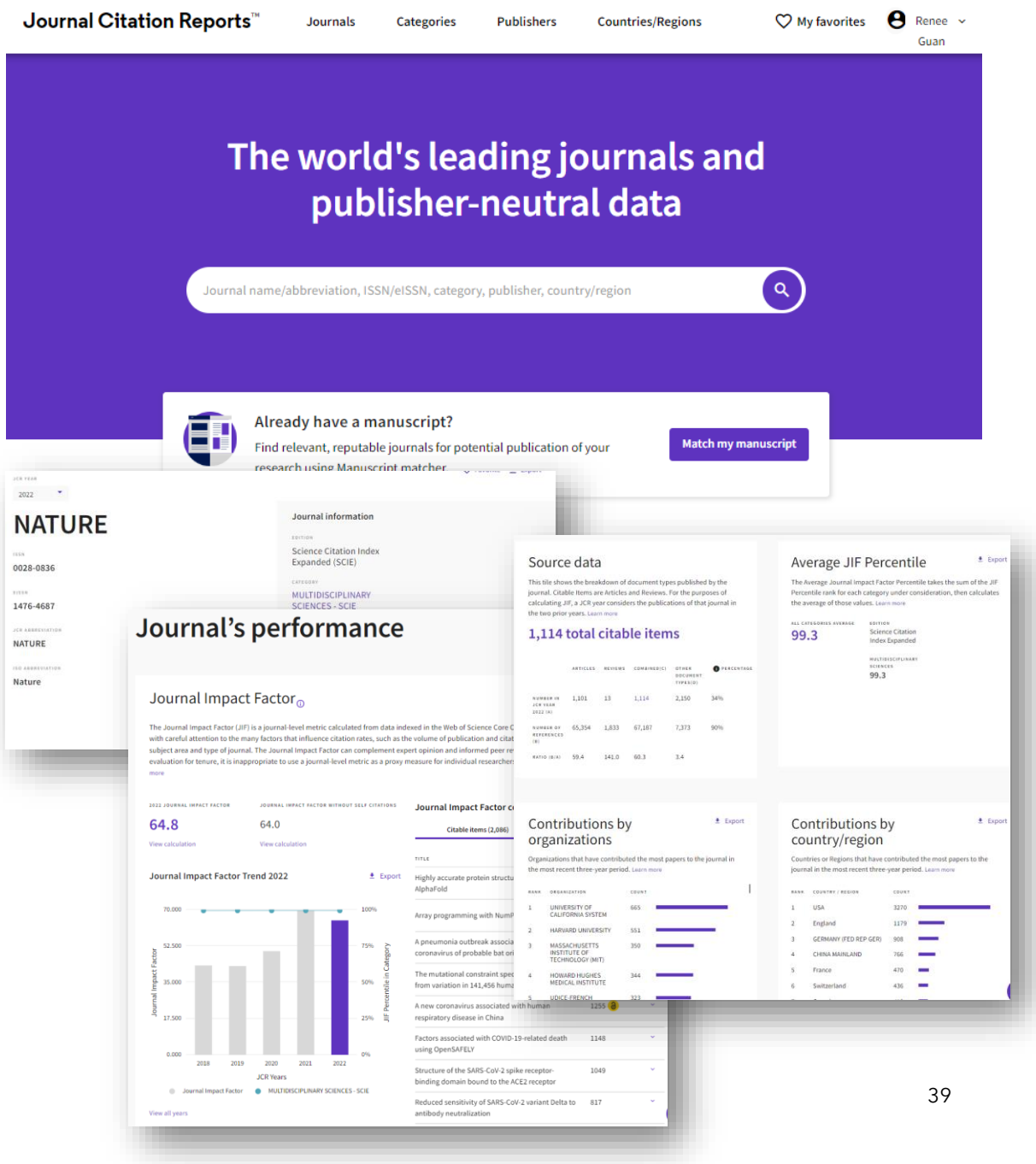
- The Journal Impact Factor quartile is the quotient of a journal's rank in category (X) and the total number of journals in the category (Y), so that (X / Y) = Percentile Rank Z.

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

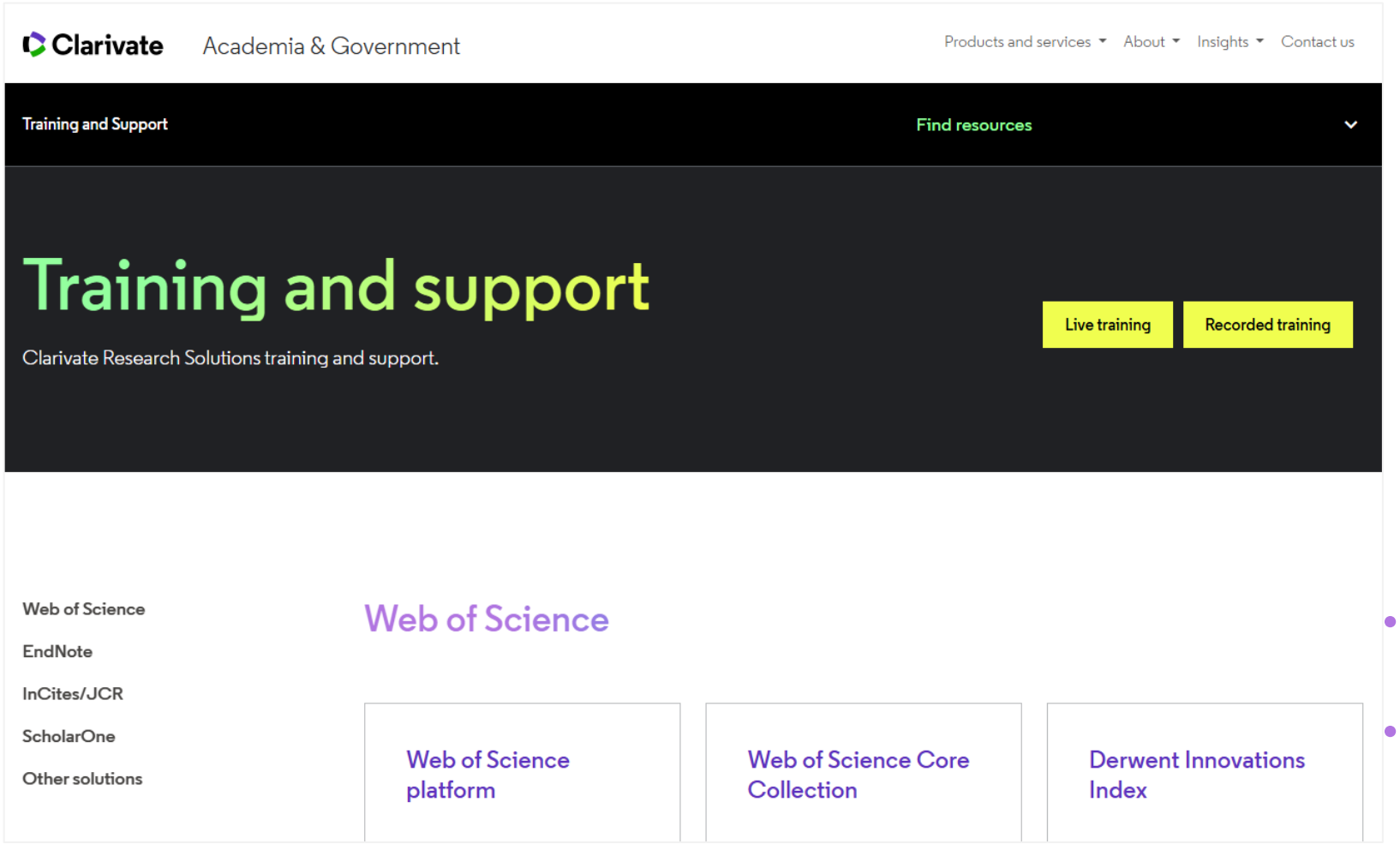
- Journals within a category are sorted in descending order by Journal Impact Factor (JIF). A separate rank is shown for each category in which the journal is listed in JCR. Beginning in 2023, ranks are calculated by category.



Live demo JCR

More supports

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



- Support Hotline: 0080-149-1138
- Support Email: ts.support.asia@Clarivate.com

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

Clarivate™