



WoS Streamline Your Research

From Topic Selection to Manuscript Submission

Agenda

1. Get to know the Web of Science database platform
2. Get to know a journal from Journal Citation Reports
3. Use Web of Science to streamline your research

Final Assignment: Research Design Proposal

Three milestones:

- Week 3: Research Question
- Week 5: Research Methods
- Week 7: Resource List: Zotero/Endnote

Two final deliverables:

- Week 10: Two page extended abstract
- Week 10: Annotated bibliography of 20 items

Assignments and Evaluation

All assignments are required for all students. Completing all assignments is not a guarantee of a passing grade. All work must be completed in order to pass this class. Late or incomplete assignments will not be given full credit unless the student has contacted the instructor prior to the due date of the assignment (or in the case of emergencies, as soon as practicable). There will be three main assignments, and ten labs. The weighting of each assignment in the final grade is noted below.

Assignments, Exercises & Grade Distribution:

- Assignment 1: Information Needs/Information Seeking Behavior. Due September 1 (20%).
- Assignment 2: Digital Collections Assessment. Due September 29 (20%).
- Assignment 3: Final Project. Due October 27 (40%).
- 10 Labs for Attendance and Completion/Class Participation (20%)

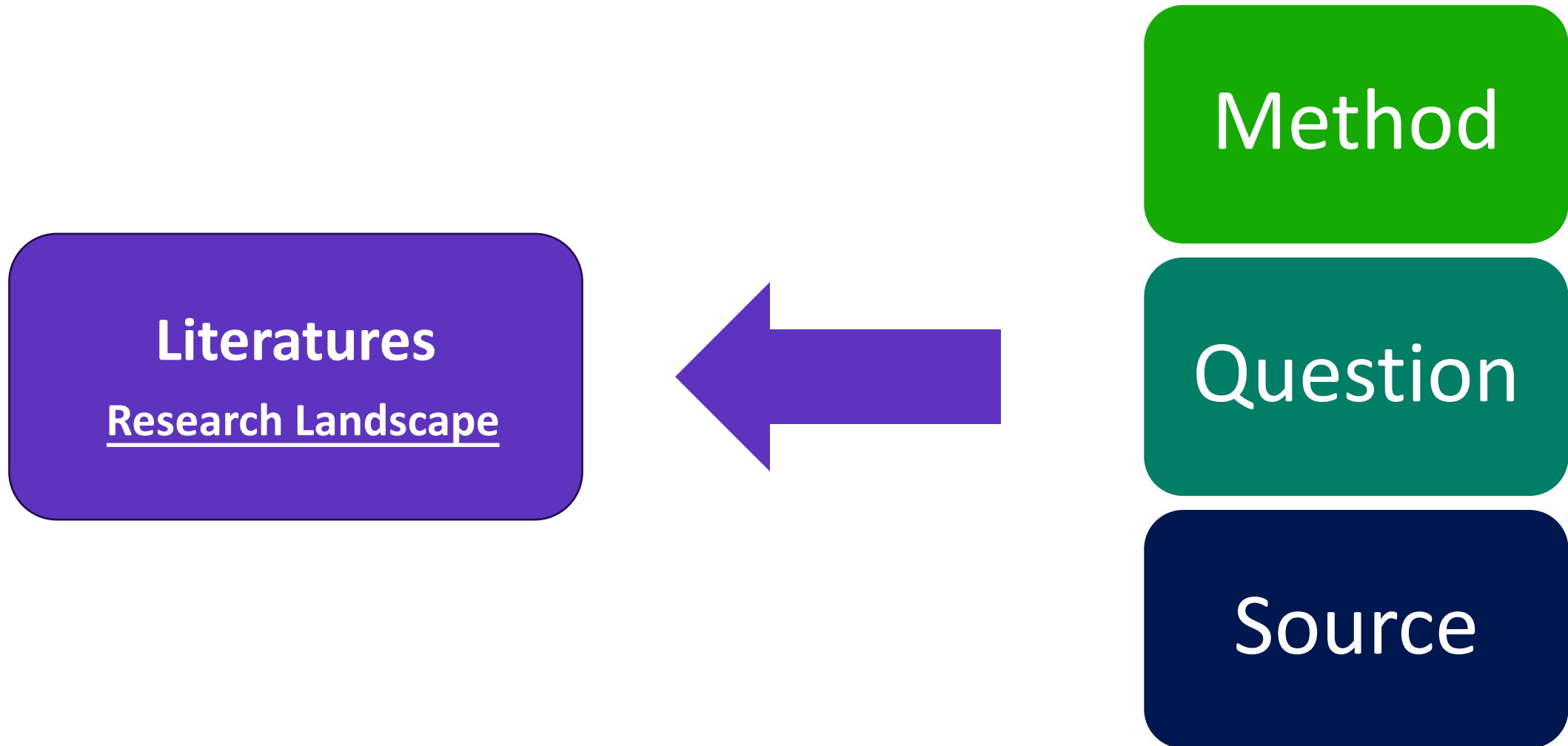
Labs:

1. Library resources (August 25)
2. ITD on computing resources (September 1)
3. Research methods exercise (September 8)
4. Pandoc encoding and transformation (September 15)
5. Cultural heritage object description (September 22)
6. Zotero bibliography and formatting (September 29)
7. Generating Resource Description Framework (RDF) output from Zotero: Bibliographic Ontology (bibo) and Dublin Core (dc) (October 6)
8. Collection stewardship exercise (October 13)
9. In-class time to work on your research design proposal (October 20)
10. Presentations of research design proposals (October 27)

Grading Scale:

94-100 = A
90-93 = A-
87-89 = B+
83-86 = B
80-82 = B-
77-79 = C+
73-76 = C
70-72 = C-
67-69 = D+
63-66 = D
60-62 = D-
59 and below = F

In a word:



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 project?

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**

Literature Databases: Two Types

Full-text Database

- Original Article (First-hand)
- Limited Coverage
- Direct Access

Index/Abstract Database

- Second-hand
- Broad Coverage
- Indirect full-text access

Better on literature review due to stronger searching and analysis capabilities.

Web of Science platform

All Index databases



Maximize the results of limited research time with an expansive, streamlined discovery experience.

Search across more than...

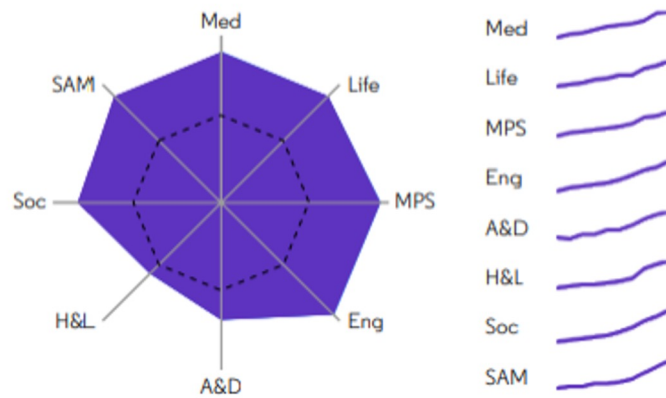
- 219 million records
- 2.48 billion cited references
- 34,500 journals
- 254 subject categories
- 5.7 million dissertations and theses
- 2 million preprints
- 117 million patents for 60 million inventions
- 15 million data sets and studies
- 5.2 million awarded grants

...in a single platform

Chinese Science Citation Database

Keep current with Mainland China's growing research enterprise

Output by discipline



- **Med** = medicine
- **Life** = life sciences
- **MPS** = maths and physical sciences
- **Eng** = engineering and technology
- **A&D** = art and design
- **H&L** = humanities and languages
- **Soc** = social sciences
- **SAM** = subjects allied to medicine

"Output has trebled in a decade, with more than a third of a million papers published in the mathematical and physical sciences (including chemistry and materials science) in 2021 alone. Impact is above the world and G20 averages."

ISI's Annual G20 Scorecard - Research Performance 2022

The purple shape shows the Research Footprint for the country as its rank among the G20 countries on this indicator

The dotted line shows the median value for the G20.

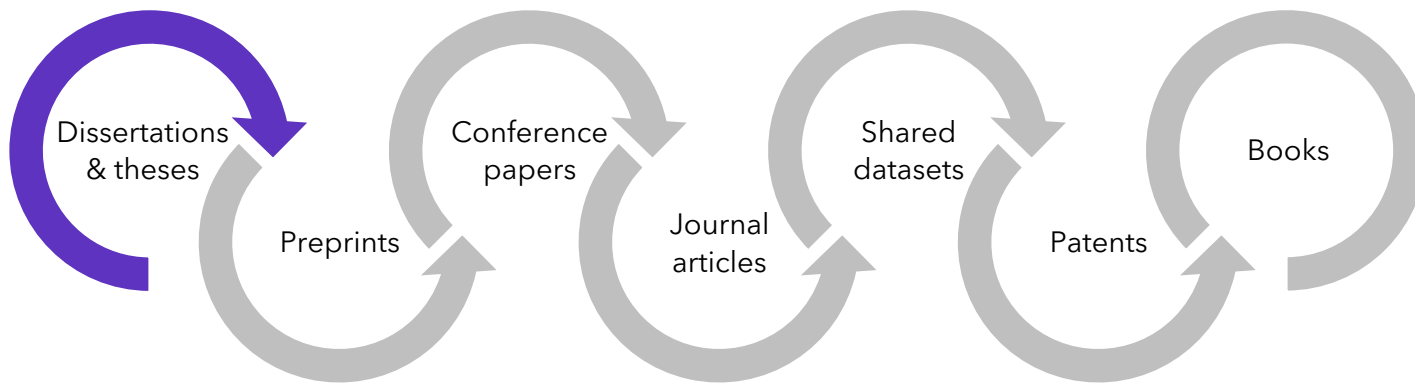
Strategic partnership with the Chinese Academy of Sciences and modeled after the Science Citation Index

Multidisciplinary coverage

Over 1,300 journals selected and indexed

Backfiles to 1989

ProQuest Dissertations & Theses Citation Index



ProQuest Dissertations & Theses Global

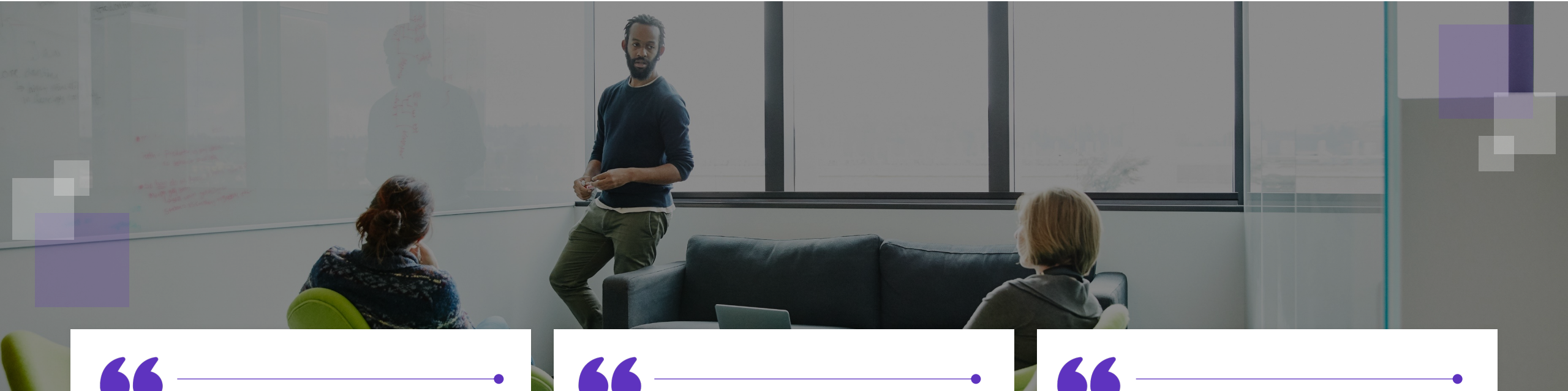


Web of Science

- Discovery of 5.7M+ metadata records from ProQuest Dissertations & Theses Global in a standalone database
- Graduate works from **4K+ universities** in **60+ countries** around the world
- For PQDT Global subscribers, links to **3M+ full text** documents

Dissertations and theses provide foundational knowledge to researchers

Surveyed Web of Science users explain why dissertations and theses are one of their most desired sources



“

Sometimes theses reveal results that are not yet published in peer-reviewed literature”

“

Look to dissertations for more details than can be found in journal articles, especially experimental details.”

“

They are often a good resource for detailed materials and methods, and also unpublished results that may nevertheless be interesting and trigger further investigations.”

Preprint Citation Index

Integrating preprints into the research ecosystem

Preprint

1

Necessity of COVID-19 Vaccination in Persons Who Have Already Had COVID-19

[N. K. Shrestha](#); [P. C. Burke](#); (...); [S. M. Gordon](#)
Apr 01 2022 | medRxiv | Total Versions: 1

Background. The purpose of this study was to evaluate the necessity of COVID-19 vaccination in persons with prior COVID-19. Methods. Employees of Cleveland Clinic working in Ohio on Dec 16, 2020, the day COVID-19 vaccination was started, were included. Anyone who tested positive for COVID-19 at least once before the study start date was considered previously infected ... [Show more](#)

[DOI](#) [View Full Text At Repository](#) [View Published Journal Article](#) ...

4

Citations

18

References

[Related records ?](#)

Preprint

This article is a preprint and has not been formally peer-reviewed. It should not be regarded as conclusive, used to guide clinical or health related decisions, or be reported in news media as established information.

Necessity of COVID-19 Vaccination in Persons Who Have Already Had COVID-19

By: [N. K. Shrestha](#) ([N. K. Shrestha](#)) [[5](#)] , [[1](#)] ; [P. C. Burke](#) ([P. C. Burke](#)) [[2](#)] ; [A. S. Nowacki](#) ([A. S. Nowacki](#)) [[3](#)] ; [P. Terpeluk](#) ([P. Terpeluk](#)) [[4](#)] ; [S. M. Gordon](#) ([S. M. Gordon](#)) [[1](#)]
medRxiv
DOI: 10.1101/2021.06.01.21258176
Published: Apr 01 2022
Indexed: 2022-11-23
Document Type: preprint
Version History:

	Publication date	External link
1	2022-04-01	https://www.medrxiv.org/content/10.1101/2021.06.01.21258176v4

Version History

Citation Network

In Preprint Citation Index

1

Citing Preprint

[Create citation alert](#)

4

Times Cited in All Databases

[See more times cited](#)

18

Cited References

[View Related Records](#)

[View citing preprints](#)

You may also like...

A collection of 2M+ preprints from 13 repositories, including [arXiv](#), [bioRxiv](#), [medRxiv](#), [ChemRxiv](#), and [Preprints.org](#).

- ✓ Quickly locate the latest breakthroughs.
- ✓ Assess preprint quality.
- ✓ Trace the evolution of an idea.

Keeping up with new ways to share research results faster

The rise of preprints as an alternative to journal publishing



Speed

Researchers can disclose their findings quickly on preprint repositories, usually **≤5 days**.



Volume

During the pandemic, several repositories saw a sizable increase in posted preprints¹, e.g. **61.2%** increase in medRxiv and bioRxiv.



Published

Only **5.7%** of pandemic related preprints were eventually published in journals.¹

Streamline discovery of early career scholarship

The screenshot shows the ProQuest search interface. At the top, there is a black bar with 'English' and a dropdown arrow. Below this is a white bar with the ProQuest logo and a 'Search' button. The main content area is divided into two tabs: 'DOCUMENTS' and 'RESEARCHERS'. Under the 'DOCUMENTS' tab, there is a search bar with the text 'Search in: ProQuest™ Dissertations & Theses Citation Index' and a 'New' badge. A dropdown menu is open, showing a list of databases: Data Citation Index, Derwent Innovations Index, FSTA® - the food science resource, Inspec®, KCI-Korean Journal Database, MEDLINE®, Preprint Citation Index (with a 'New' badge), ProQuest™ Dissertations & Theses Citation Index (with a 'New' badge), SciELO Citation Index, and Zoological Record. A red arrow points to the 'ProQuest™ Dissertations & Theses Citation Index' option. To the right of the dropdown, there is a detailed description of the ProQuest™ Dissertations & Theses Citation Index (1637-present), stating it is 'The world's most comprehensive curated collection of multi-disciplinary dissertations and theses from around the world, offering over 5 million citations and 3 million full-text works from thousands of universities.' It lists two bullet points: 'Within dissertations and theses is a wealth of scholarship, yet it is often overlooked because most go unpublished. Uncover new ideas and innovations with more confidence and efficiency.' and 'Delivers a focused path for researchers by tapping into a global network of connected research.' Below this, it says 'Data updated 2023-03-10'. A 'Search' button is visible at the bottom right of the dropdown menu.



- Discovery of 5.7M+ metadata records from ProQuest Dissertations & Theses Global in a standalone database
- >172M indexed and linked cited references connect dissertations and theses to the Web of Science network
- Graduate works from 4K+ universities in 60+ countries around the world
- For PQDT Global subscribers, links to 3M+ full text documents that include:
 - Innovative methodologies and experimental details outlined in the full document
 - Unpublished datasets and results found only in the dissertation document

CPCI (Conference Proceedings Citation Index, 会议论文引文索引)

Values of conference proceedings

- Conference proceedings represent the leading edge of research – revealing emerging trends and new ideas before they appear in journals. The CPCI lets you use cited reference searching to see the full impact of conferences and other professional meetings.

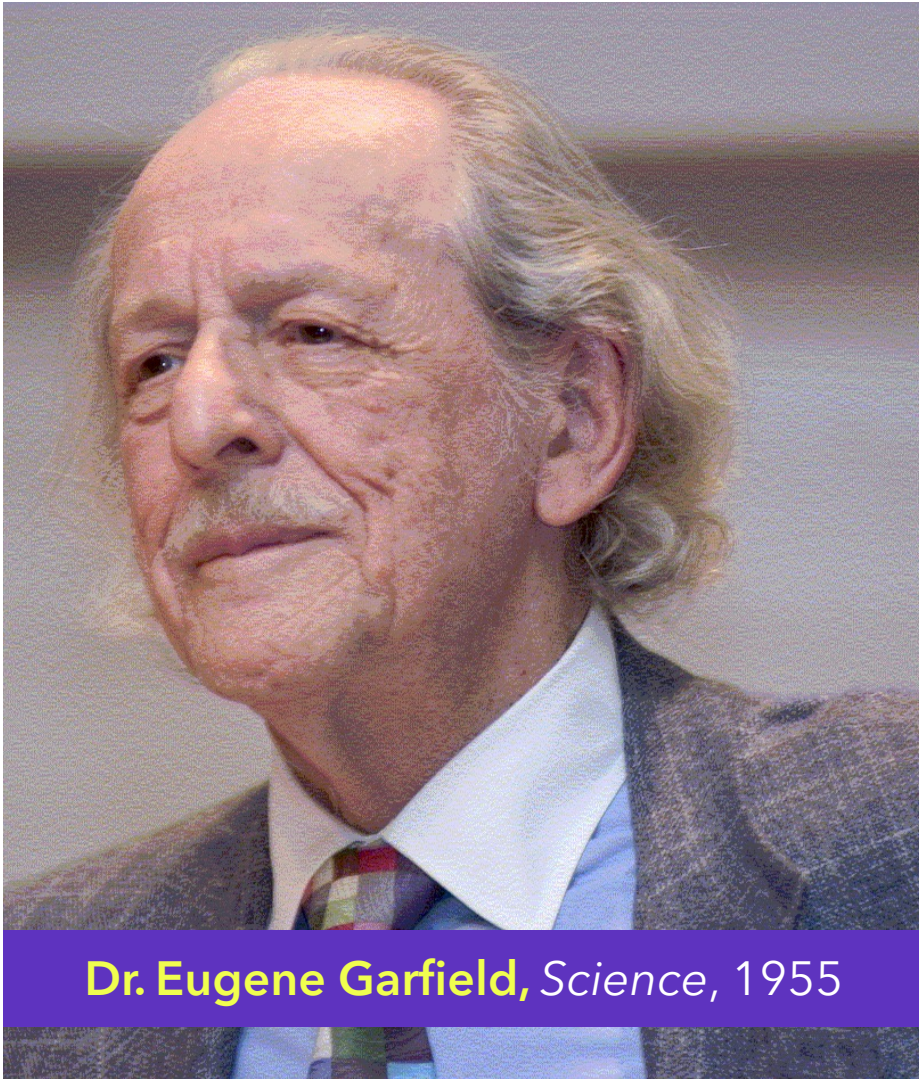
About CPCI

- The CPCI contains over 227,000 conference proceedings, with 70 million cited references dating back from 1990 to present.

Values of CPCI

- Uncover emerging and developing concepts
- Discover research ideas as they are first presented
- Identify potential collaborators who are working on complementary areas of research.

**What is the significance of
citation index?**



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...”

Web of Science Citation Index

“Citation”

A fundamental action
with academic dialogue.

Are you familiar with...

References: Also called **Cited References**. The opposite is **Citing Articles**.

Citation: In-text Citation plus Cited References at the end of the paper.

Index: an essential component of a paper book,

listing important terms with their corresponding

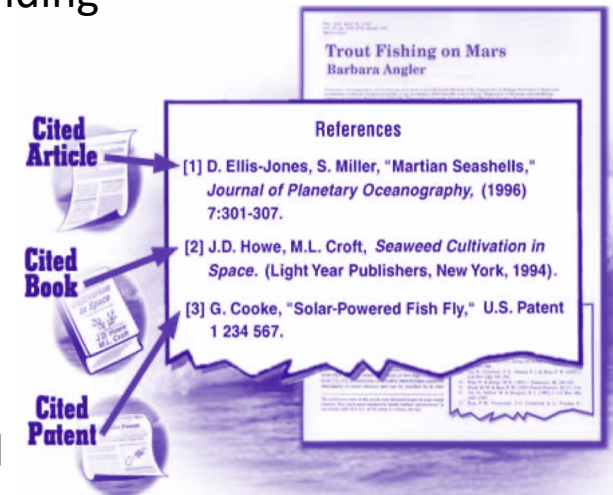
page numbers, allowing for quick location.

Similarly in electronic databases, using

metadata such as author name, title, and

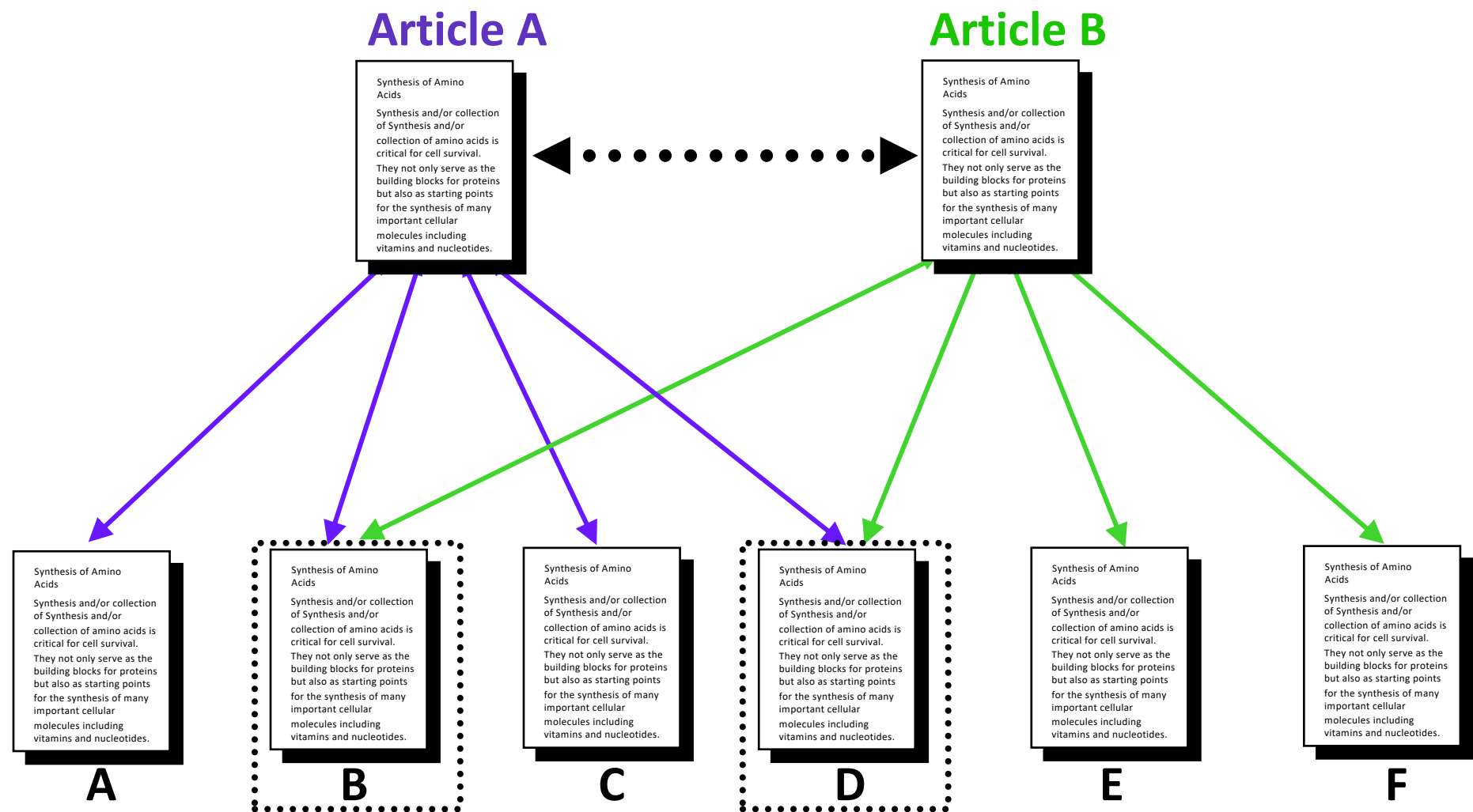
publication, you can find all citing and cited

references.



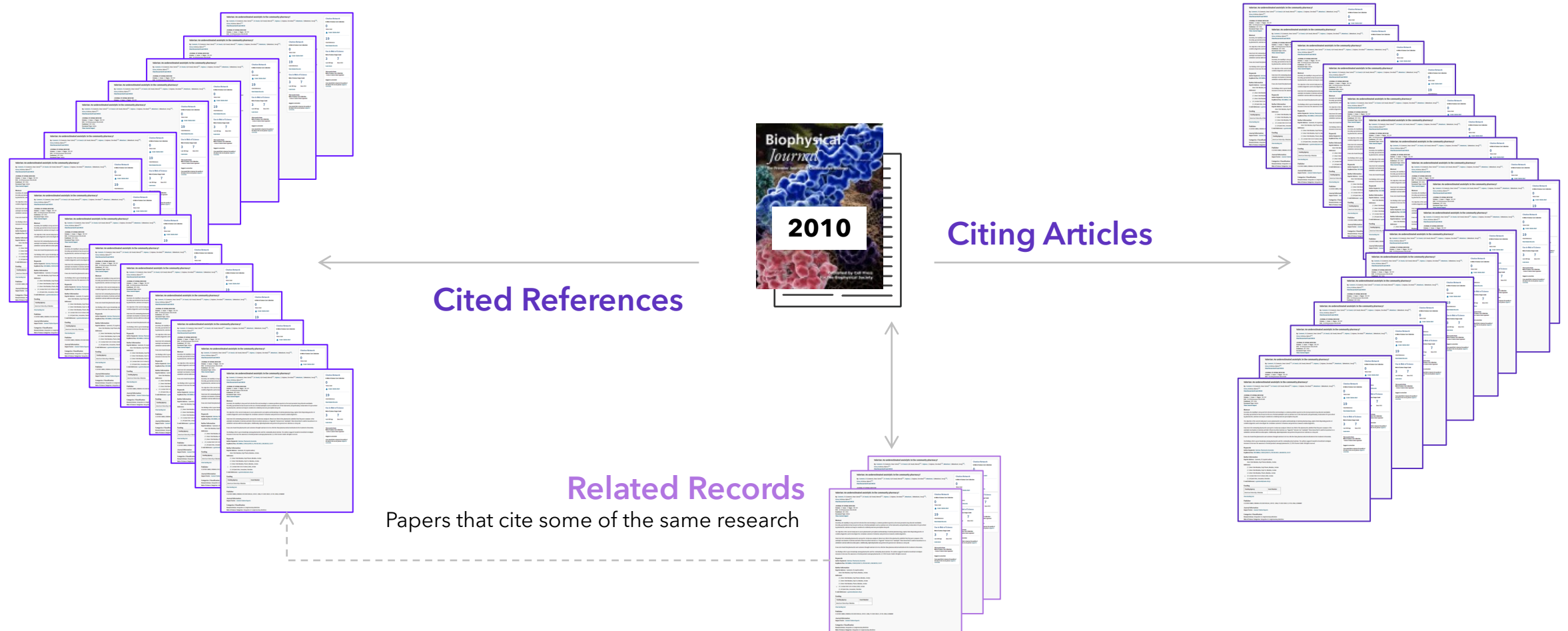
Related Records

If several documents share the same references, they are called related records.

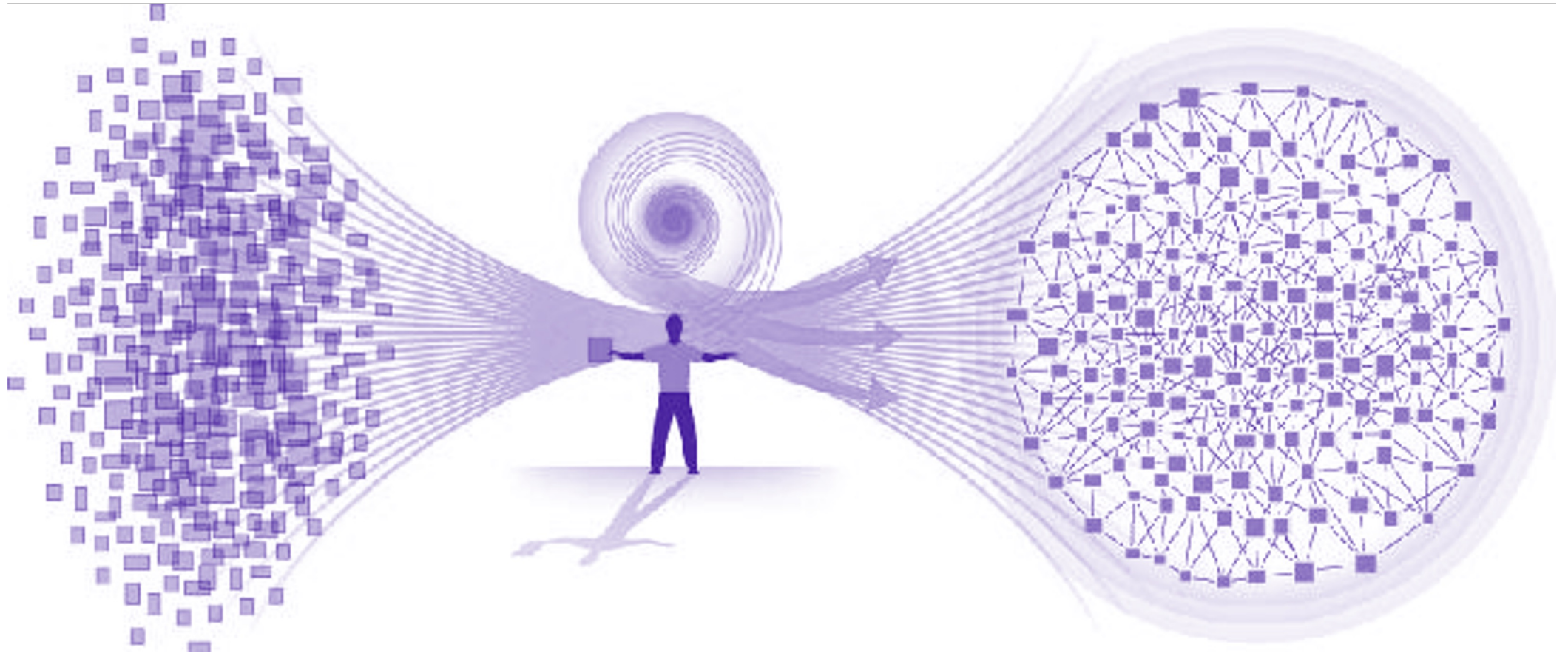


Uncover Hidden Connections

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



Web of Science Citation Network



Web of Science is connecting “papers”.



Als in Web of Science Platform

Recommendation algorithms

AI for a more personalized experience

Content metadata and user interactions drive article and author recommendations that facilitate connections and broader discovery in the Web of Science.

Recommended for you

Articles
Based on your search history, we thought you might find these interesting
Last updated: Nov 28, 2023, 12:50 PM [Refresh list](#) [Edit recommendations](#) [Alert created](#)

Living environment matters: Unravelling the spatial clustering of COVID-19 hotspots in Kolkata megacity, India Published: FEB 2021 Das, A ; Ghosh, S ; Das, M View Record	A Multi-Linear Regression Model to Predict the Factors Affecting Water Consumption in Qatar Published: 2021 Alshaikhli, M ; Aqeel, S ; Choe, P View Record	Did the COVID-19 Pandemic Crisis Affect Housing Prices Evenly in the US? Published: NOV 2021 Li, XB ; Zhang, CR View Record	The universal visitation law of human mobility Published: MAY 27 2021 Schläpfer, M ; Dong, L ; W View Record	COVID-19 Risk Assessment: Contributing to Maintaining Urban Public Health Security and Achieving Sustainable View Record	Spa repc infl Chir View Record
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You might be interested in...

[How are recommendations generated?](#)

Harashima, Hideyoshi
Hokkaido University
Top Journal: Journal Of Controlled Release

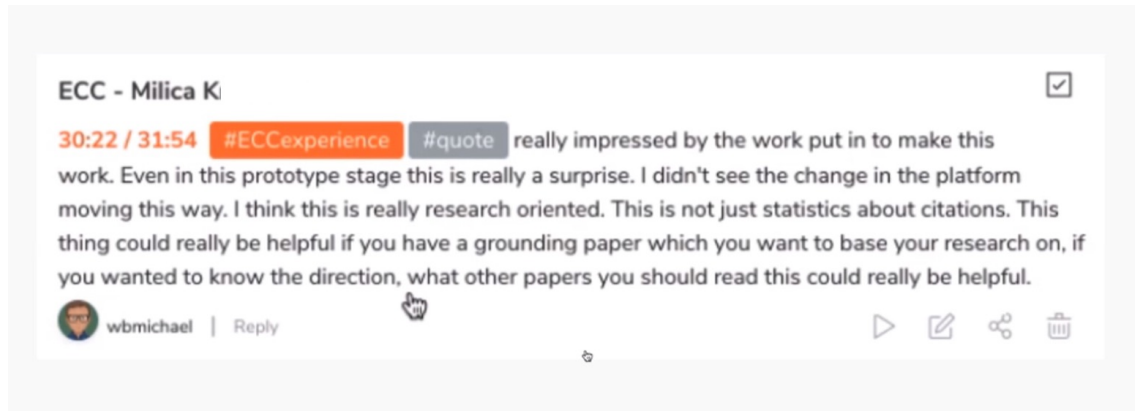
Yamada, Yuma
Hokkaido University
Top Journal: Journal Of Pharmaceutical Sciences

Dantus, Marcos
Michigan State University
Top Journal: Optics Express

Wróbel, Maria
Collegium Medicum Jagiellonian University
Top Journal: Amino Acids

[See less authors](#) ^

Positive user feedback since the launch

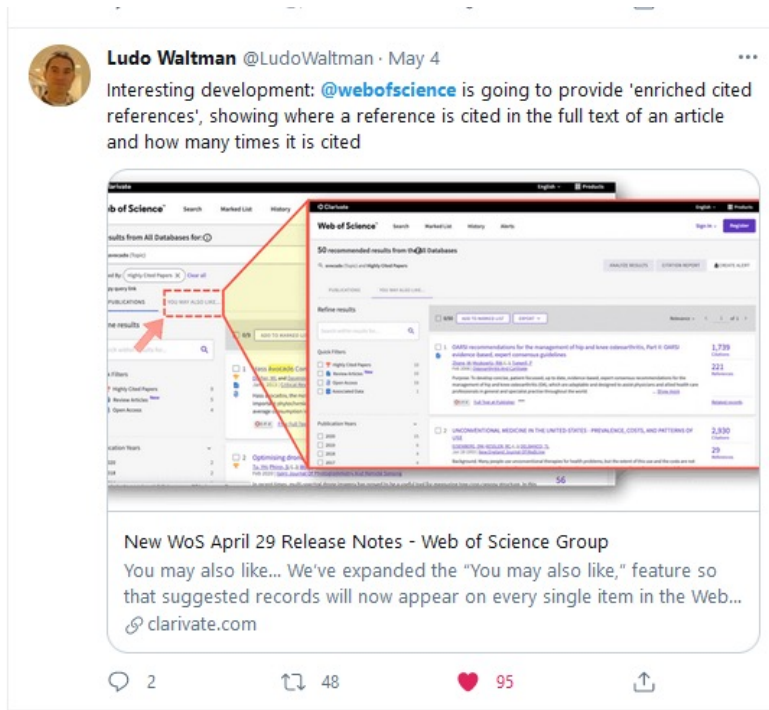


"Awesome"

National Taiwan University
8 May via Pendo feedback

"I like this feature! It helps me to identify the part cited the most. It is going to help me doing reading for my coursework!"

Lancaster University
11 May via Pendo feedback



"Very interesting feature, it brings very useful information. I'm making a very basic search now, but for state-of-art literature gathering I think it would be a key game changer."

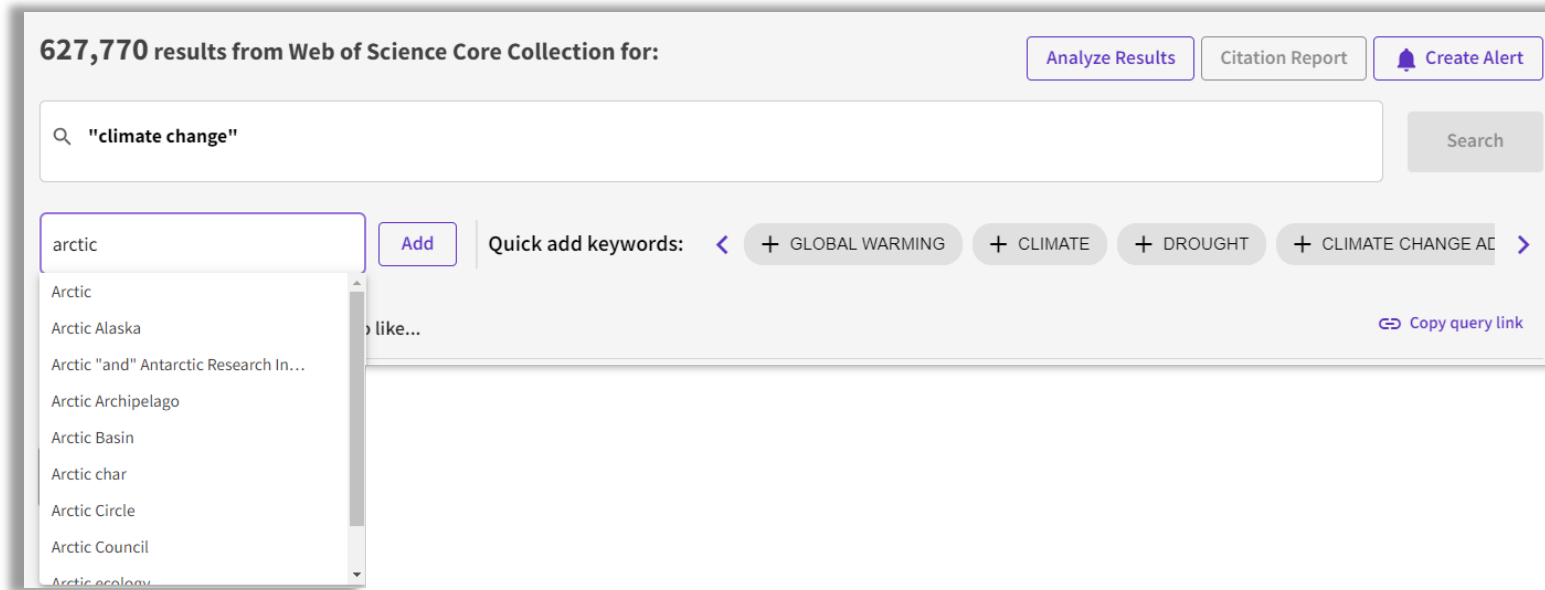
Univ Catolica de Santa Maria,
22 July via Pendo feedback

"These new features just made grad school so much easier!"

University of North Carolina Wilmington
13 Sept via Pendo feedback

Query suggestions

AI for improved searching



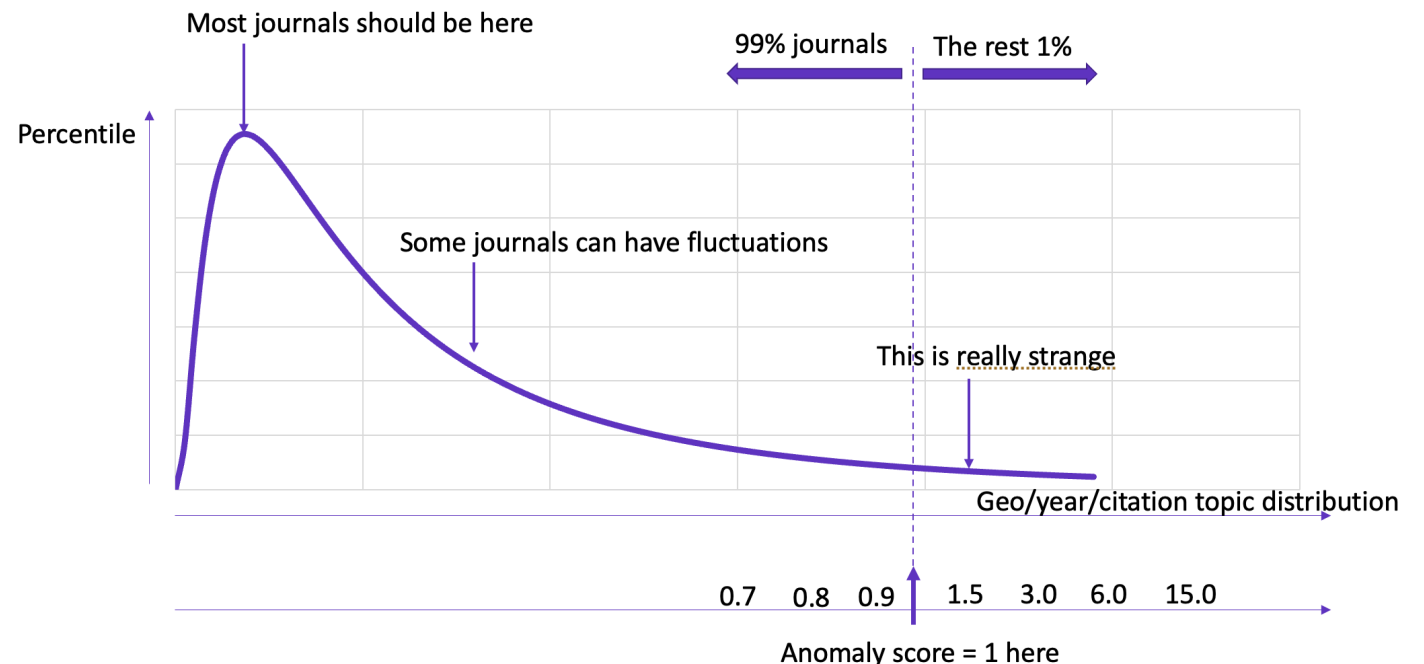
- Users can quickly and efficiently narrow searches and improve the relevancy of results with topic and keyword suggestions.
- Easy to modify searches using algorithmically generated author keywords and topic suggestions or input free text in the search box.

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.

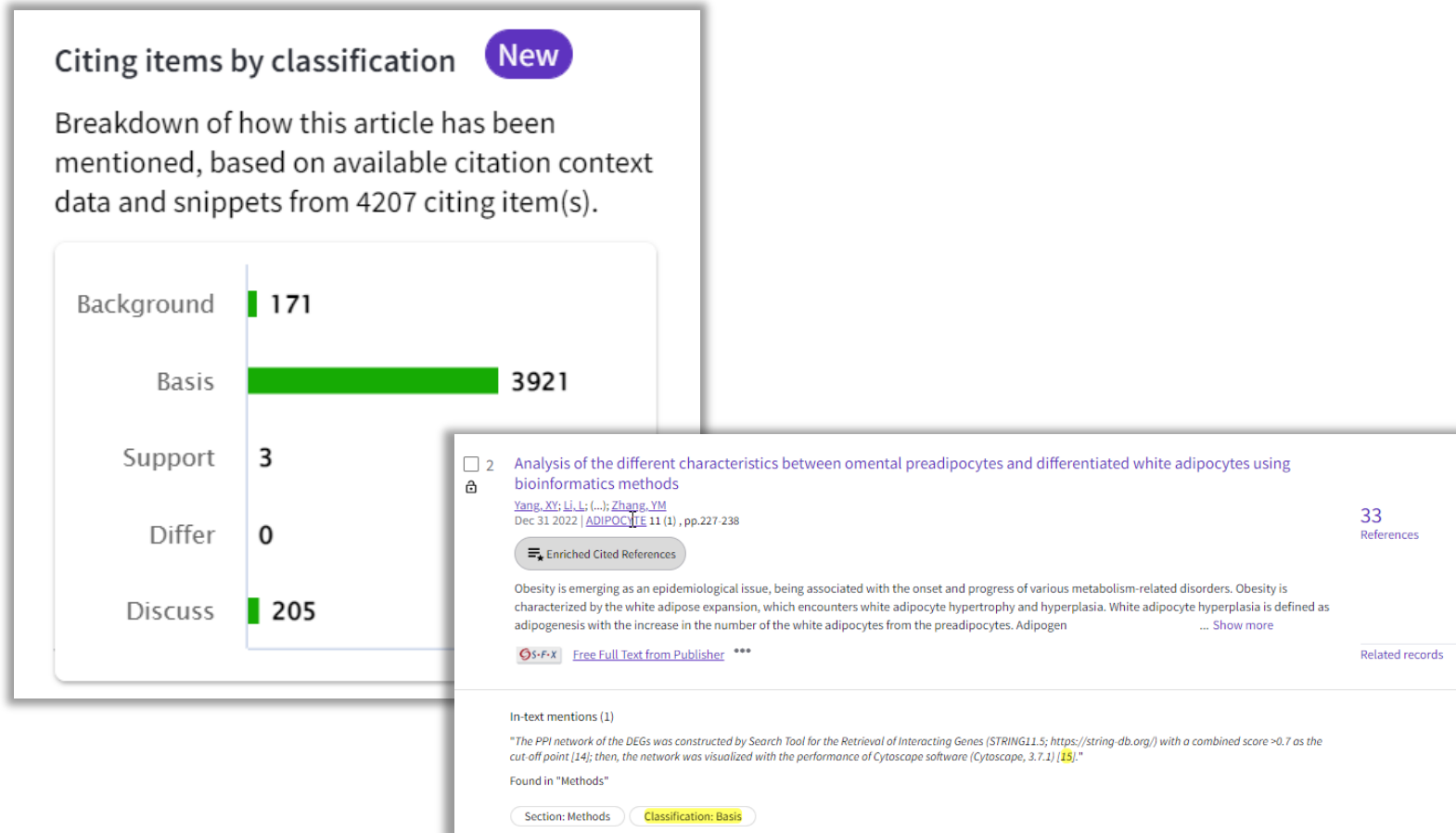
Method: Use a complex statistical score to identify deviation from past publishing behavior and deviations from the publishing behavior of other journals sharing the same Web of Science category. A combined score is used to flag highly anomalous journals for expert review.



Citation context

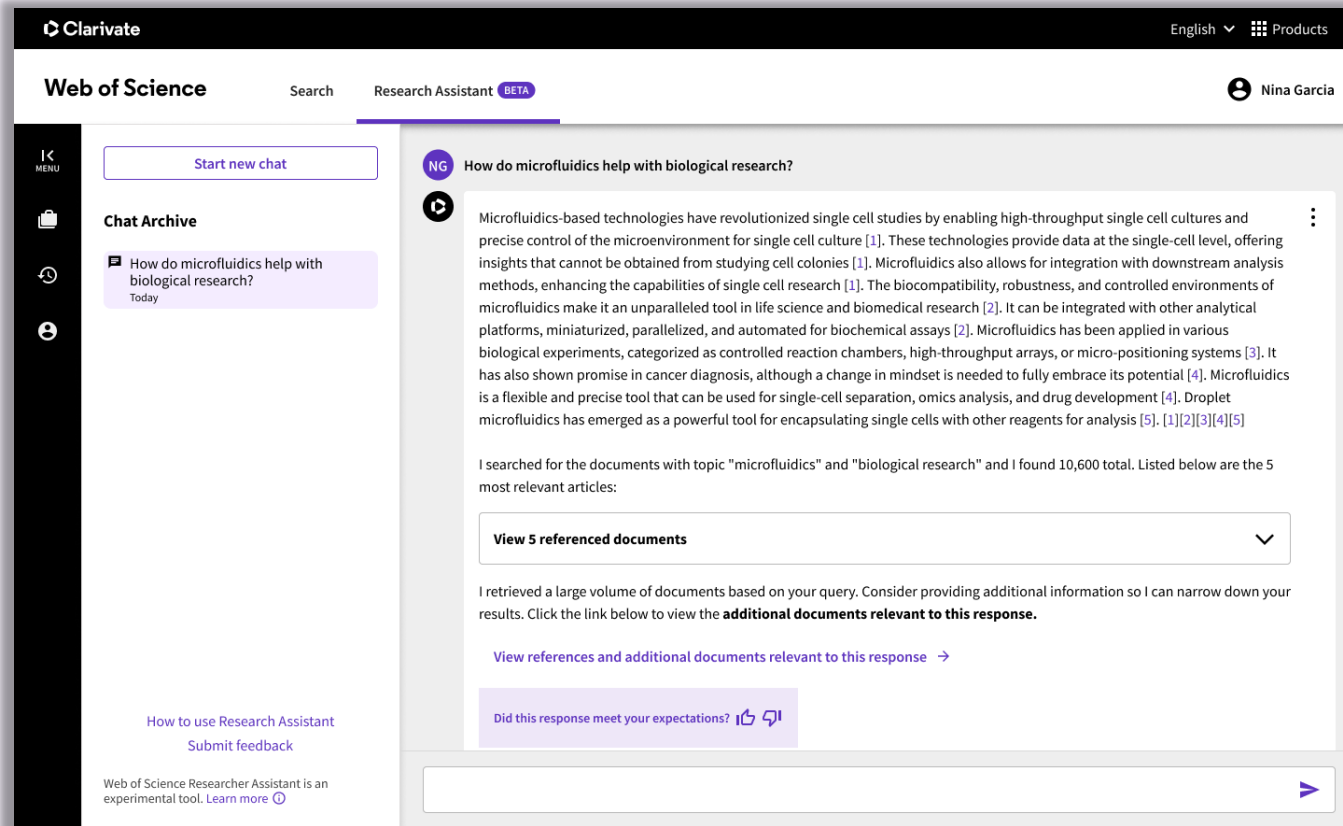
AI for enriched discovery in the Web of Science

- Users can locate additional research related to an item of interest and pinpoint must-read papers cited most frequently in an article.
- Provides a way to gain a nuanced understanding of how and why citations occur



Example Web of Science record

Web of Science research assistant



Design preview

Conversational discovery

Show me articles on climate change

What are the most cited papers on microfluidics?

Individual article summarization

Summarize the paper titled 'The potential impact of droplet microfluidics in biology'

Direct question answering

What is the difference between Climate Change and Global Warming?

What is the role of the mitochondrial fusion in cancer progression?

Full references to trusted sources

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](#)



Confidently navigate the growing complexities of journal publishing.

Make high stakes decisions about resource allocation and people with data that is independent of bias.

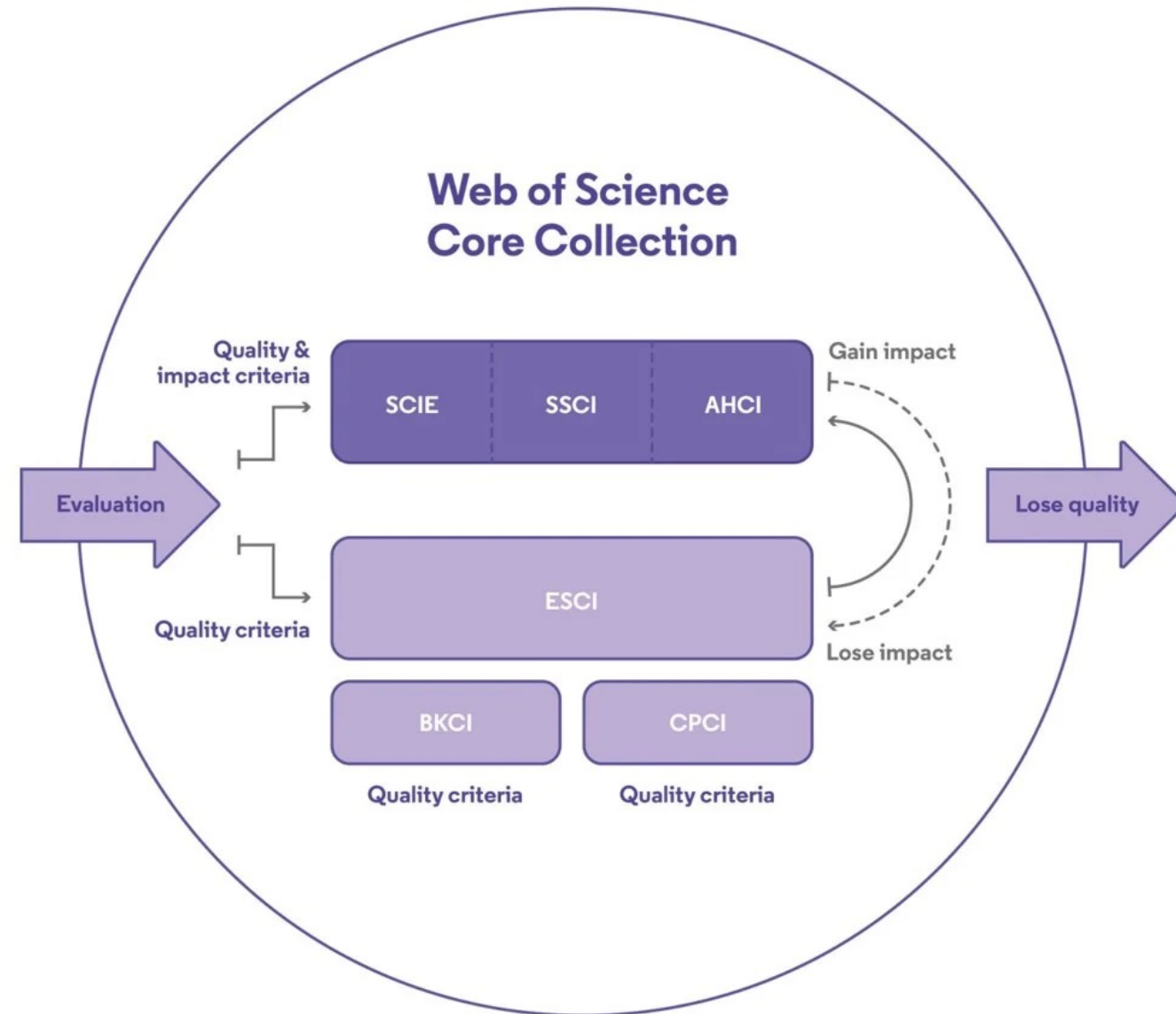
Agenda

1. Get to know the Web of Science database platform
2. Get to know a journal from Journal Citation Reports

Are you aware?

Journal lists are changing.

- The included journals have passed the 28 strict selection standards to ensure high-quality data.
- The journal list update frequency is monthly. Since it changes dynamically - to avoid ads or untimely and inaccurate information when searching online – [See our official website to download the journal list.](#)



Where to download the journal list? www.webofscience.com

Clarivate

English ▾Products

Web of Science™

SearchAdvanced search✦ Research Assistant

Master Journal List

MENUMENU

DOCUMENTSDOCUMENTS

RESEARCHERSRESEARCHERS

Search in: Web of Science Core Collection ▾Editions: All ▾

FIELDDED SEARCHFIELDDED SEARCH

QUERY BUILDERQUERY BUILDER

CITED REFERENCESCITED REFERENCES

STRUCTURESTRUCTURE

Topic ▾

Example: oil spill* mediterranean

+ Add row+ Add row

+ Add date range+ Add date range

× Clear× Clear

SearchSearch

Web of Science

Master Journal List

Admin Portal - Usage Reports

InCites Benchmarking & Analytics

Journal Citation Reports™

Research Horizon Navigator

Essential Science Indicators

Reference Manager

EndNote

EndNote Click

Where to download the journal list?

Master Journal List

Search Journals

Match Manuscript

Downloads

Help Center

welcome, shunian tang

Settings

Log Out



The power of the Web of Science™ on your mobile device, wherever inspiration strikes.

Dismiss

Learn More

Collection List Downloads

Web of Science Core Collection

Monthly Changes Archive

Additional Web of Science Indexes

Web of Science Core Collection

Last Updated: February 19, 2024

The Web of Science Core Collection™ includes the Science Citation Index Expanded™ (SCIE), Social Sciences Citation Index™ (SSCI), Arts & Humanities Citation Index™ (AHCI), and Emerging Sources Citation Index™ (ESCI). Web of Science Core Collection includes only journals that demonstrate high levels of editorial rigor and best practice. The Journal Citation Reports™ includes journals from the SCIE and SSCI.

Each collection list download includes the journal title, ISSN/eISSN, publisher name and address, language, and category.



Science Citation Index
Expanded (SCIE)



Social Sciences Citation Index
(SSCI)



Arts & Humanities Citation Index
(AHCI)



Emerging Sources Citation
Index (ESCI)



JCR 2023

JCR: All you need to know about a journal

Journal Citation Reports

Browse journals

Browse categories

My favorites

Sign In

Register

The world's leading journals and publisher-neutral data

Type in the journal title...

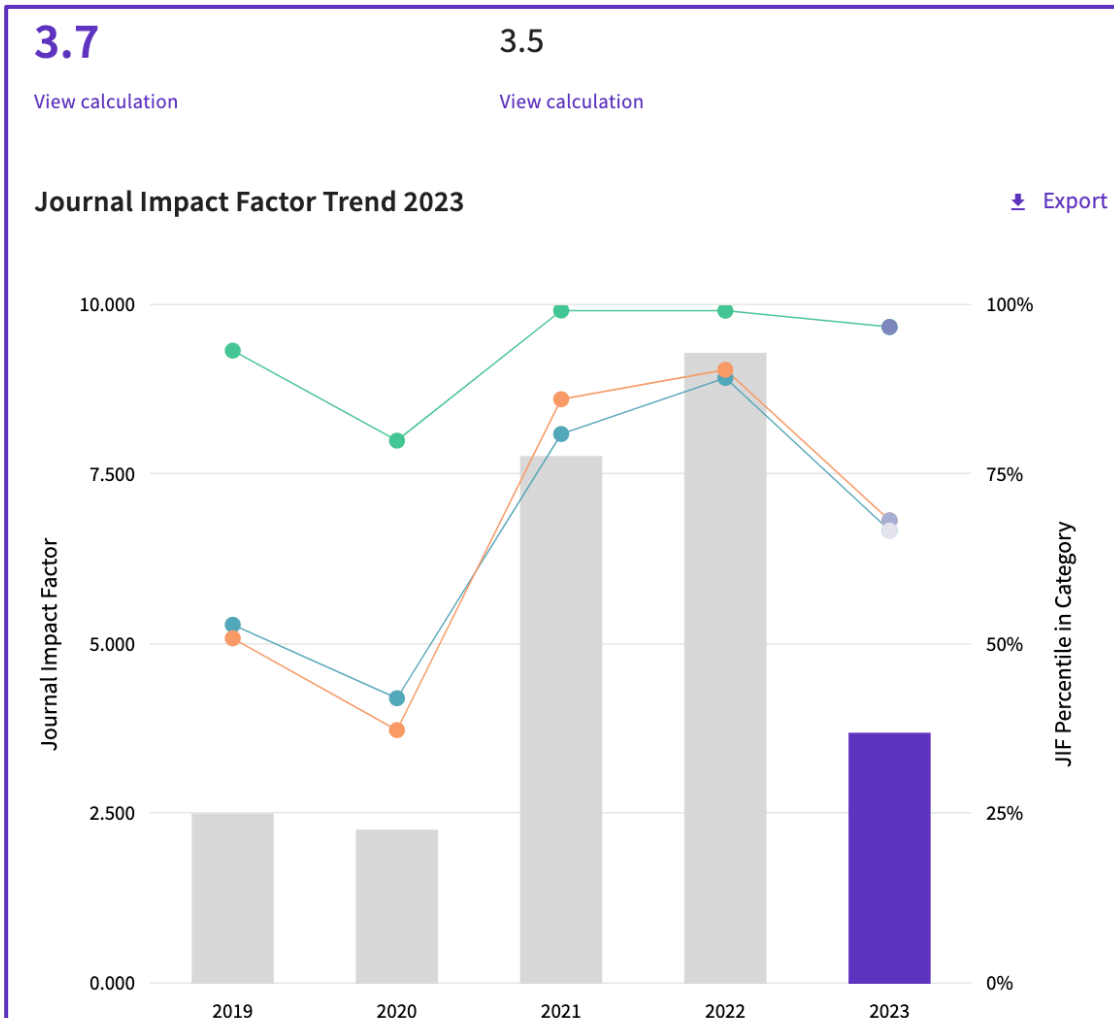


Already have a manuscript?

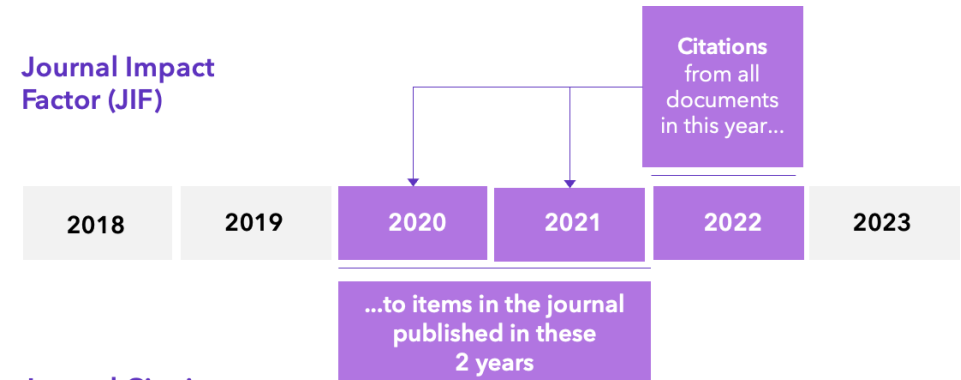
Find relevant, reputable journals for potential publication of your research using

Match my manuscript

Where to get the GIF and its quartile data?



- Get the Impact Factor (GIF) from JCR (Journal quotation report) database: jcr.clarivate.com
- The calculation of the impact factor is based on the number of references:



- Quartile of GIF: Arrange all journals in a certain subject area in descending order by their GIF, and then divide them into four equal parts Q1 to Q4 (each for 25 %).

For the GIF, please note:

- The GIF can assist in evaluating the influence of journal but cannot be used to evaluate papers or authors (the latter can refer to bibliographic details and author profiles) or to compare and judge different disciplines.

- **Want to position your influence?**



[See Author Profile page](#)

The screenshot shows the Web of Science interface. At the top, there's a purple header with 'Web of Science™', 'Search', 'Research Assistant BETA', and a user profile 'Shuhan Yang'. Below this is a navigation bar with 'Search > Author Records > Author Profile'. On the left is a vertical menu with icons for home, search, and notifications. The main content area displays the author profile for 'Terence Tao' (Tao, Terence), a 'Highly Cited Researcher' at the 'University of California, Los Angeles'. It includes a circular profile picture with the initials 'TT' and a 'Web of Science ResearcherID: M-1837-2015'. Below the profile, there are sections for 'Published names' (Tao, Terence; Tao, T; Tao, T.), 'Published Organizations' (University of California Los Angeles, UCLA Dept Math, Australian National University), 'Subject Categories' (Mathematics; Computer Science; Physics; Engineering), and 'Awards' (Highly Cited Researcher in the field of Mathematics - 2019; Highly Cited Researcher in the field of Computer Science - 2017). On the right side, there are buttons for 'Share', 'Submit a correction', and 'Add alert'. Below these is a 'Verify your Author Record' section with instructions and a 'Go to author search' button. At the bottom right, there's a 'Metrics' section with a 'Profile summary' and a list of metrics: 238 Total documents, 238 Publications indexed in Web of Science, 238 Web of Science Core Collection publications, 0 Preprints, 0 Dissertations or Theses, 0 Non-indexed publications, 0 Verified peer reviews, and 0 Verified editor records. There's also a 'Show more' link for the awards section.

Agenda

1. Get to know the Web of Science database platform
2. Get to know a journal from Journal Citation Reports
3. Use Web of Science to streamline your research

How to get the research fronts in your area?

科睿唯安与中国科学院合作发布系列报告（中文）

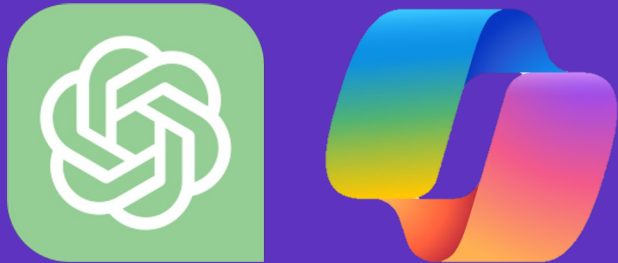
《2014研究前沿》、《2015研究前沿》、《2016研究前沿》、《2017研究前沿》、《2018研究前沿》、
《2019研究前沿》、《2020研究前沿》、《2021研究前沿》、《2022研究前沿》、《2023研究前沿》



Scan to Download



Research question?



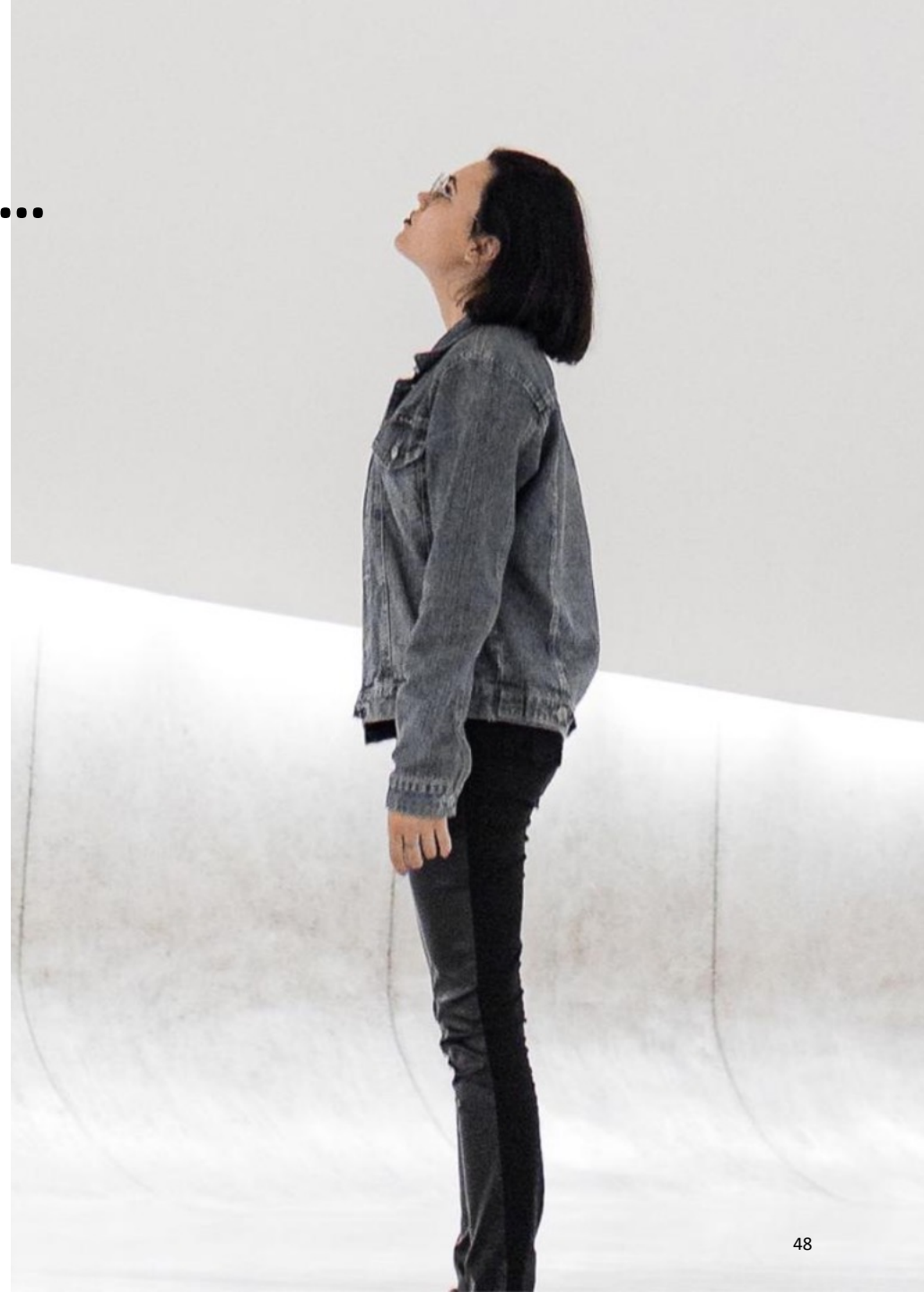
Take "Artificial Intelligence + Linguistics" as an example

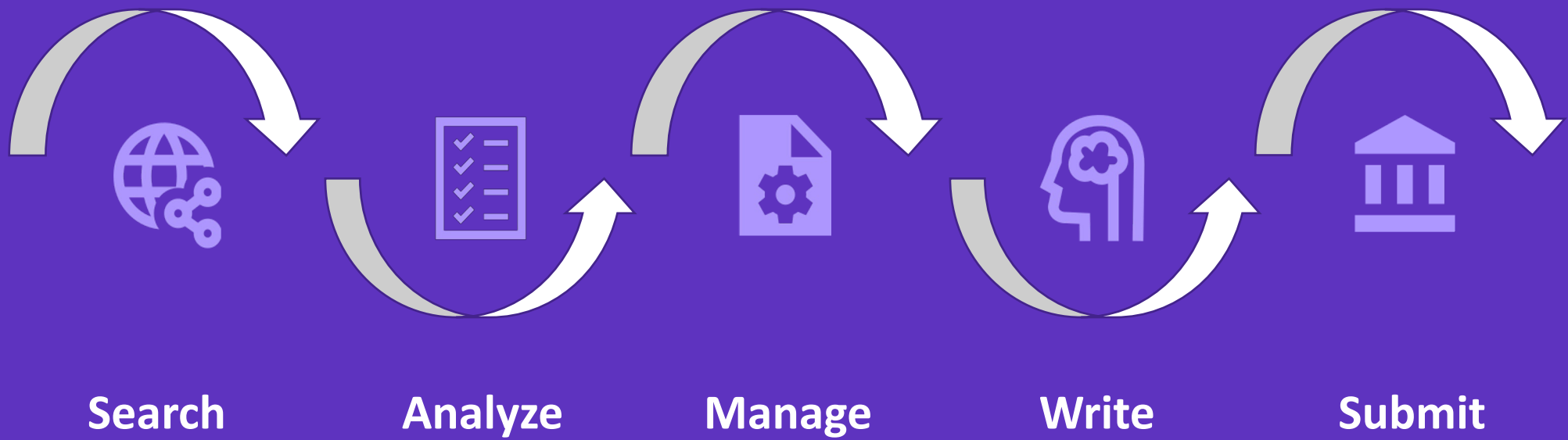
about AI: There are many directions in the field of artificial intelligence, an important one is natural language processing (NLP), which was established according to the theory of traditional linguistics.

about Linguistics: Divided into Theoretical Linguistics and Applied Linguistics. Under the latter, Computational Linguistics is closely related to artificial intelligence, which draws on the expertise in the fields of computer science and statistics, such as models and algorithms to solve problems in linguistics.

After formulating a research question

- How to efficiently and accurately **Search** relevant, high-quality literatures from exploding information sources?
- How to **Analyze** and determine your research focus?
- How to stay up-to-date with research developments?
- How to conveniently download and **Manage** a large volume of collected literatures?
- How to efficiently **Write** paper and quickly identify right journals to **Submit** ?







Search

Formulate
a search query

"Artificial Intelligence + Linguistics"

- artificial intelligence, AI
- language linguistics
- query : WC=(Language & Linguistics) AND
WC=(Computer Science, Artificial Intelligence)

To efficiently conduct research analysis using Web of Science

Regarding the research on __**Artificial Intelligence + Linguistics**__, the direction of _____ has attracted considerable attention from researchers. You can choose _____ as a starting point for quickly understanding this issue. Recent advancements indicate that topics such as _____ are quite popular.

In the past _____ years, this issue has shown a _____ trend globally. Researchers mainly conduct related studies from disciplines such as _____, and we also notice that interdisciplinary fields like _____ may offer different research perspectives and inspiration.

Most of the research outcomes on this issue come from _____ (countries/regions) and are primarily published in journals such as _____. The institutions with the most publications include _____, and the most active authors are _____ and others.

Web of Science Advanced Search: The Search Box

Web of Science™

Search

Advanced search

Research Assistant

Shuhan Yang

MENU

DOCUMENTS

RESEARCHERS

Search in: Web of Science Core Collection Editions: All Choose the Index

FIELD SEARCH

QUERY BUILDER

CITED REFERENCES

STRUCTURE

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Tjuatja, L; Chen, V; (...); Neubig, G

Sep 4 2024 | TRANSACTIONS OF THE ASSOCIATION FOR COMPUTATIONAL LINGUISTICS 12, pp.1011-1026

One widely cited barrier to the adoption of LLMs as proxies for humans in subjective tasks is their sensitivity to prompt wording-but interestingly, humans also display sensitivities to instruction changes in the form of response biases. We investigate the extent to which LLMs reflect human response biases, if at all. We look to survey de ... [Show more](#)



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Muralidaran, V; Spasic, I and Knight, D

Nov 2021 | NATURAL LANGUAGE ENGINEERING 27 (6), pp.647-689

This study systematically reviews existing approaches to unsupervised grammar induction in terms of their theoretical underpinnings, practical implementations and evaluation. Our motivation is to identify the influence of functional-cognitive schools of grammar on language processing models in computational linguistics. This is an effort to fill any gap between the theoretical school and the co

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Chatzikoumi, E

Mar 2020 | NATURAL LANGUAGE ENGINEERING 26 (2), pp.137-161

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[Joshi, M; Chen, DQ; \(...\); Levy, O](#)

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We present SpanBERT, a pre-training method that is designed to better represent and predict spans of text. Our approach extends BERT by (1) masking contiguous random spans, rather than random tokens, and (2) training the span boundary representations to predict the entire content of the masked span, without relying on the individual token representations within it. SpanBERT consistently outperforms previous methods on span prediction tasks. ... [显示更多](#)

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Professor Chen from Zhejiang University is a member of the National New Generation Artificial Intelligence Strategic Advisory Committee and an academician of the Chinese Academy of Engineering. Professor Chen's team published this paper, which uses a bidirectional propagation method to obtain the relationship between sentiment words and evaluation targets.

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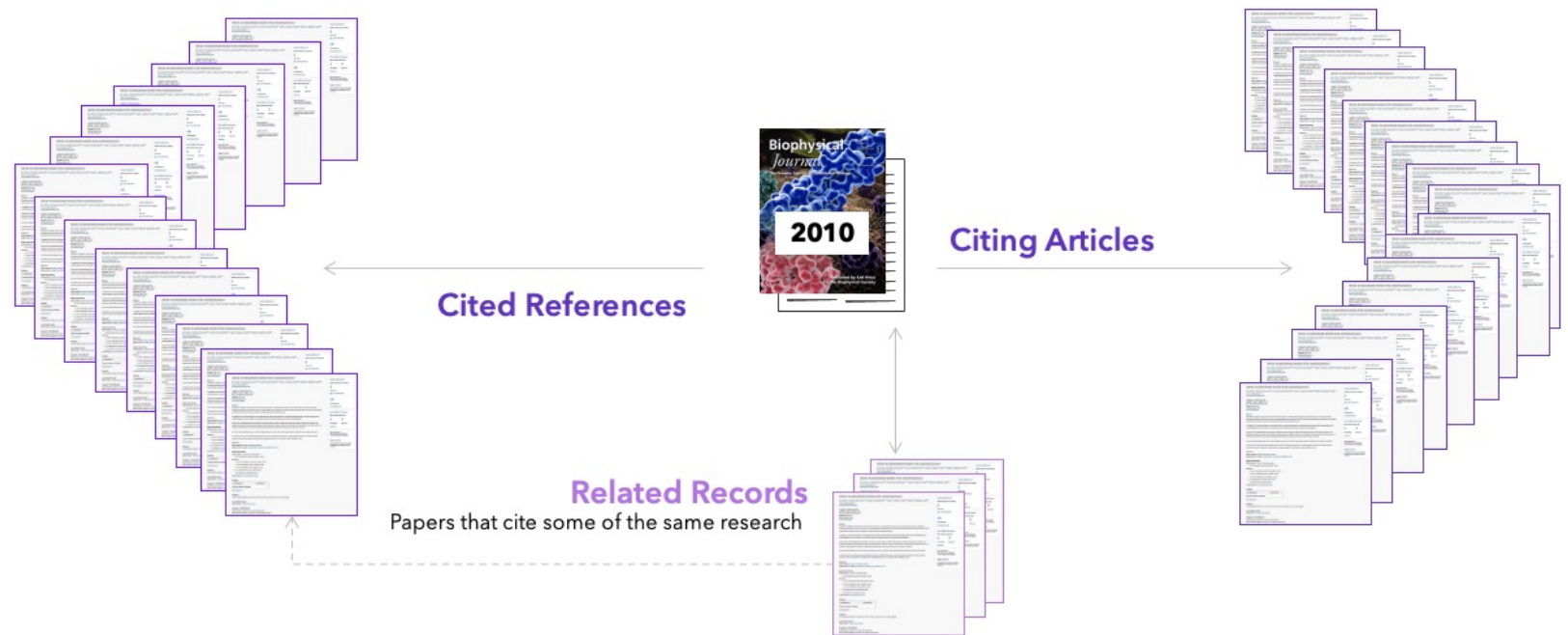
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Opinion Word Expansion and Target Extraction through Double Propagation

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[Breck, E](#); [Choi, Y](#) and [Cardie, C](#)
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[Esuli, A](#) and [Sebastiani, F](#)
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[Finkel, J.R.](#); [Grenager, T](#) and [Manning, C](#)
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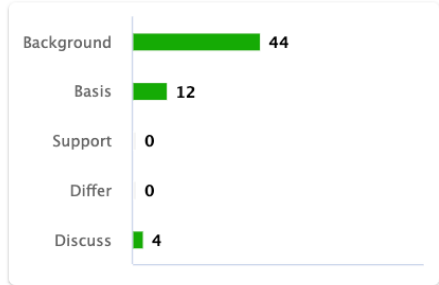
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Automatically identifying the polarity of words is a very important task in Natural Language Processing. It has applications in text classification, text filtering, analysis of product review, analysis of responses to surveys, and mining online discussions. We propose a method for identifying the polarity of words. We apply a Markov random walk model to a large word relatedness graph, producing ... 显示更多

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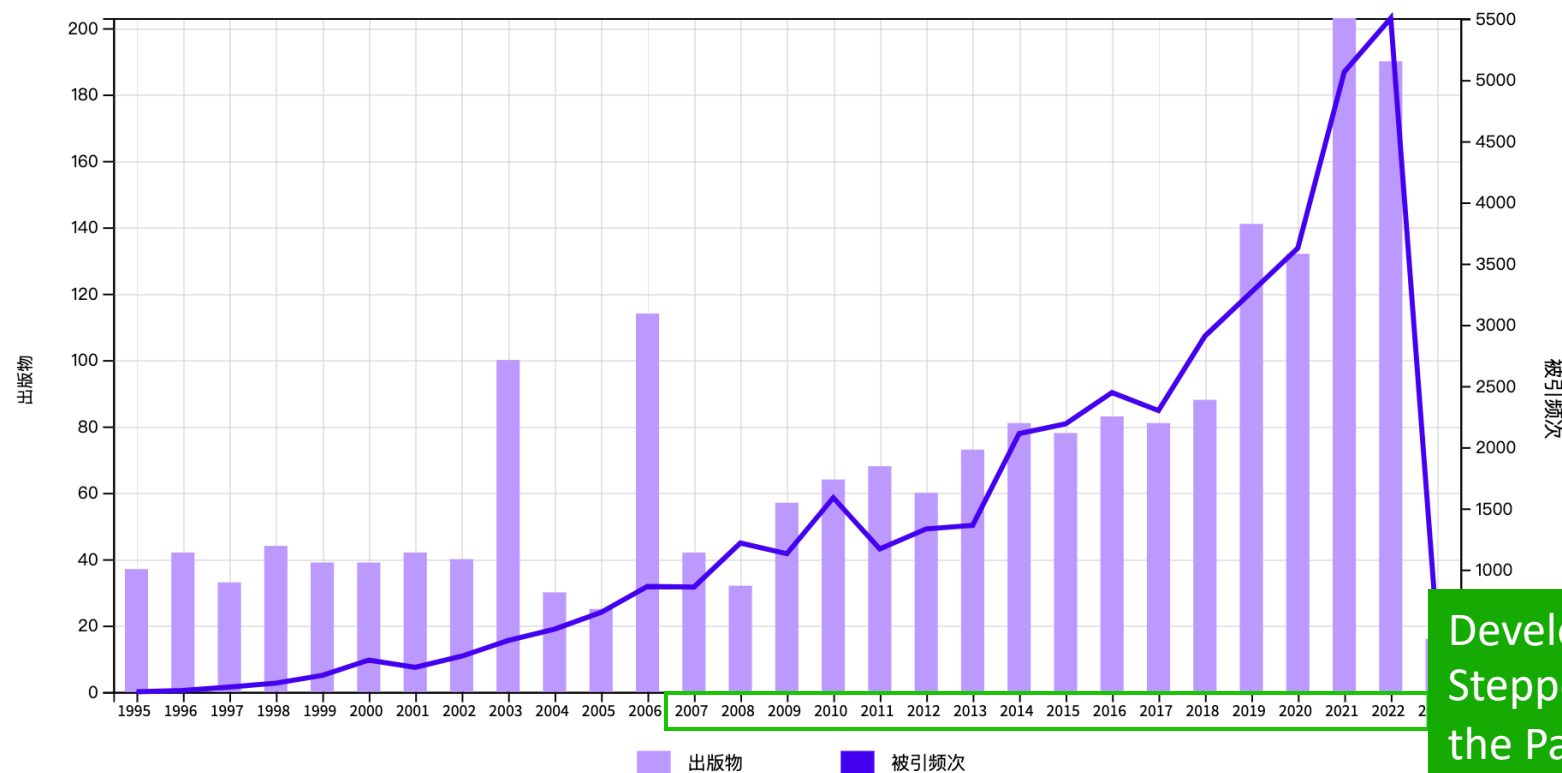
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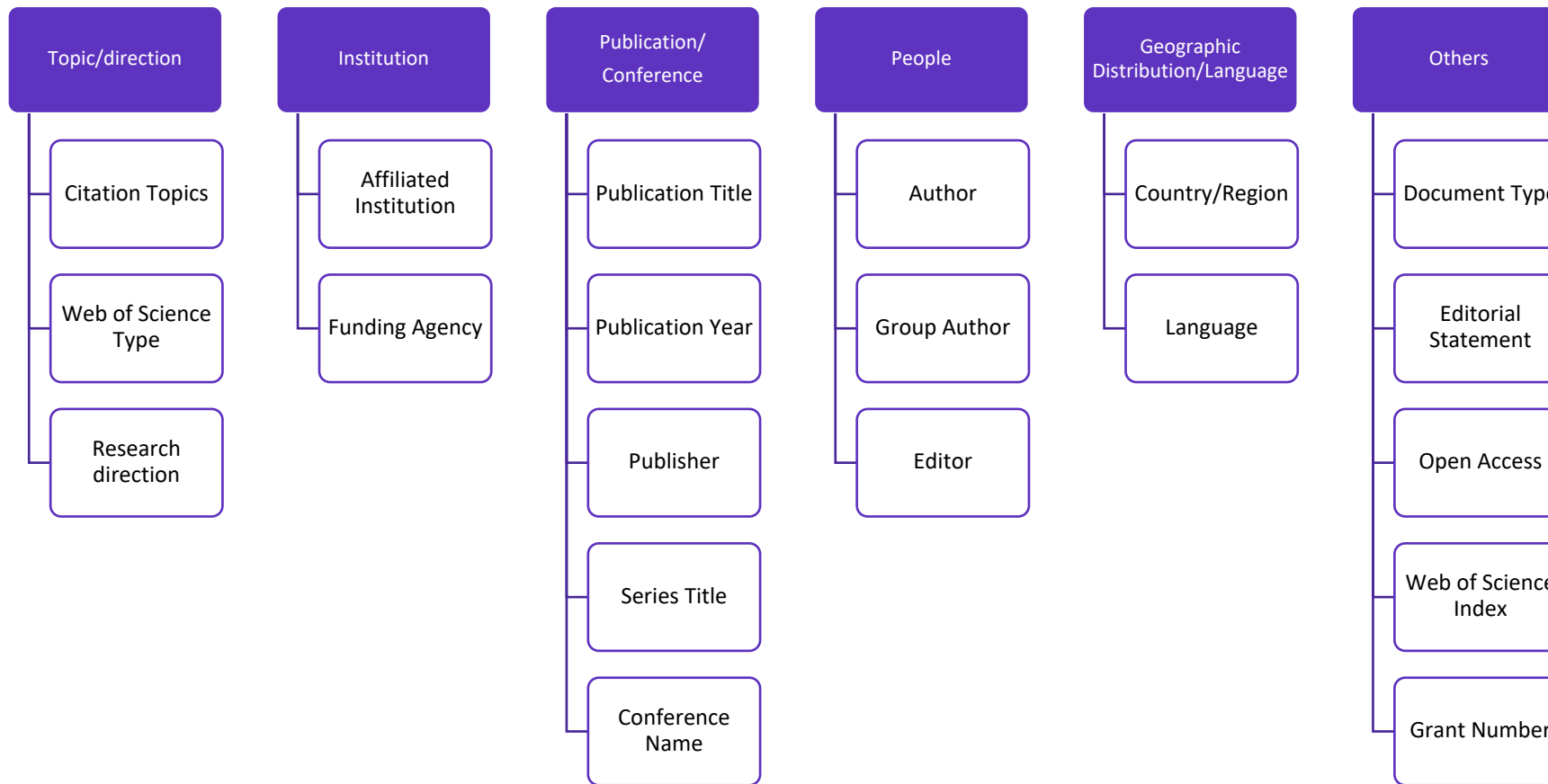
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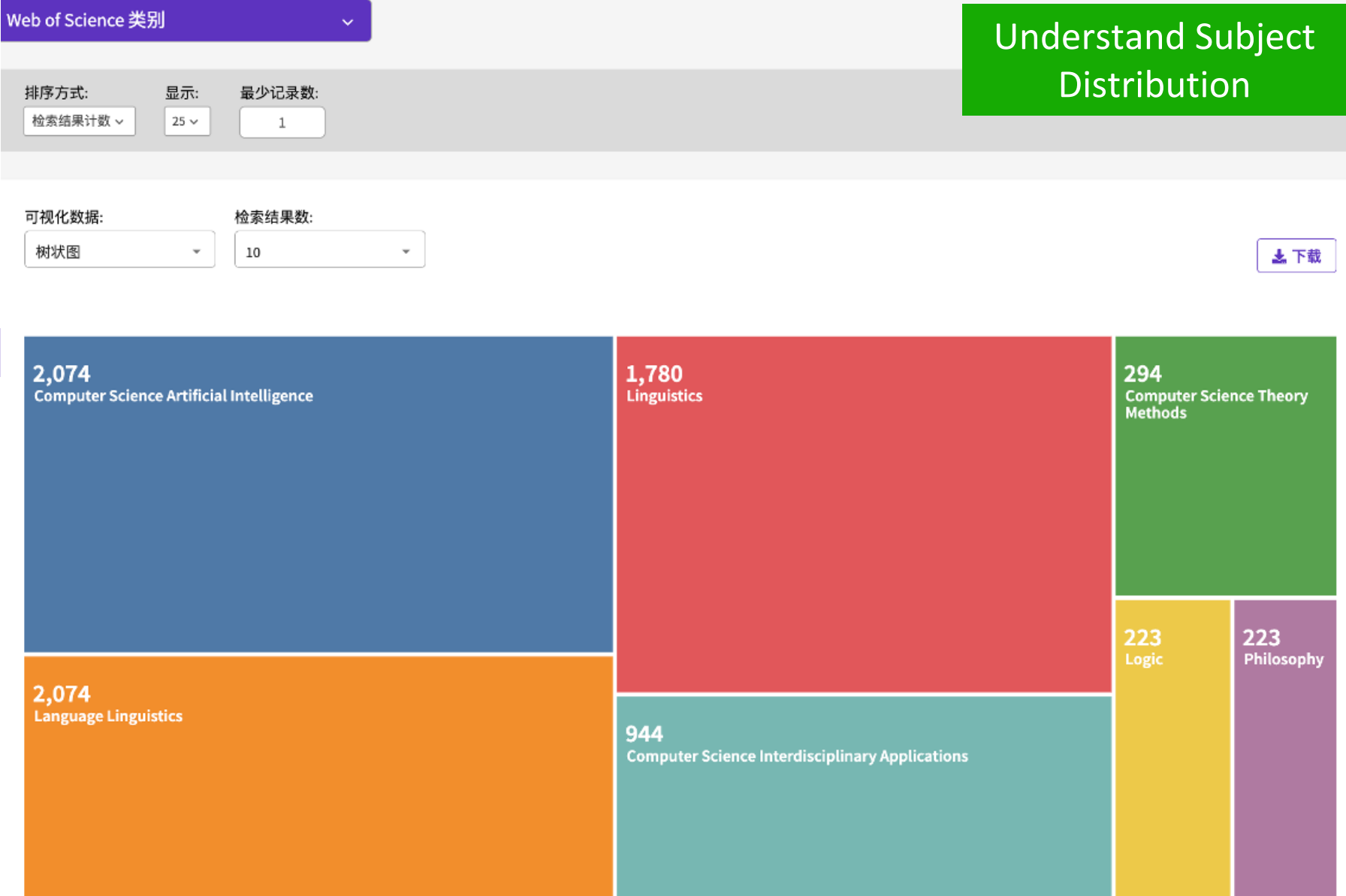


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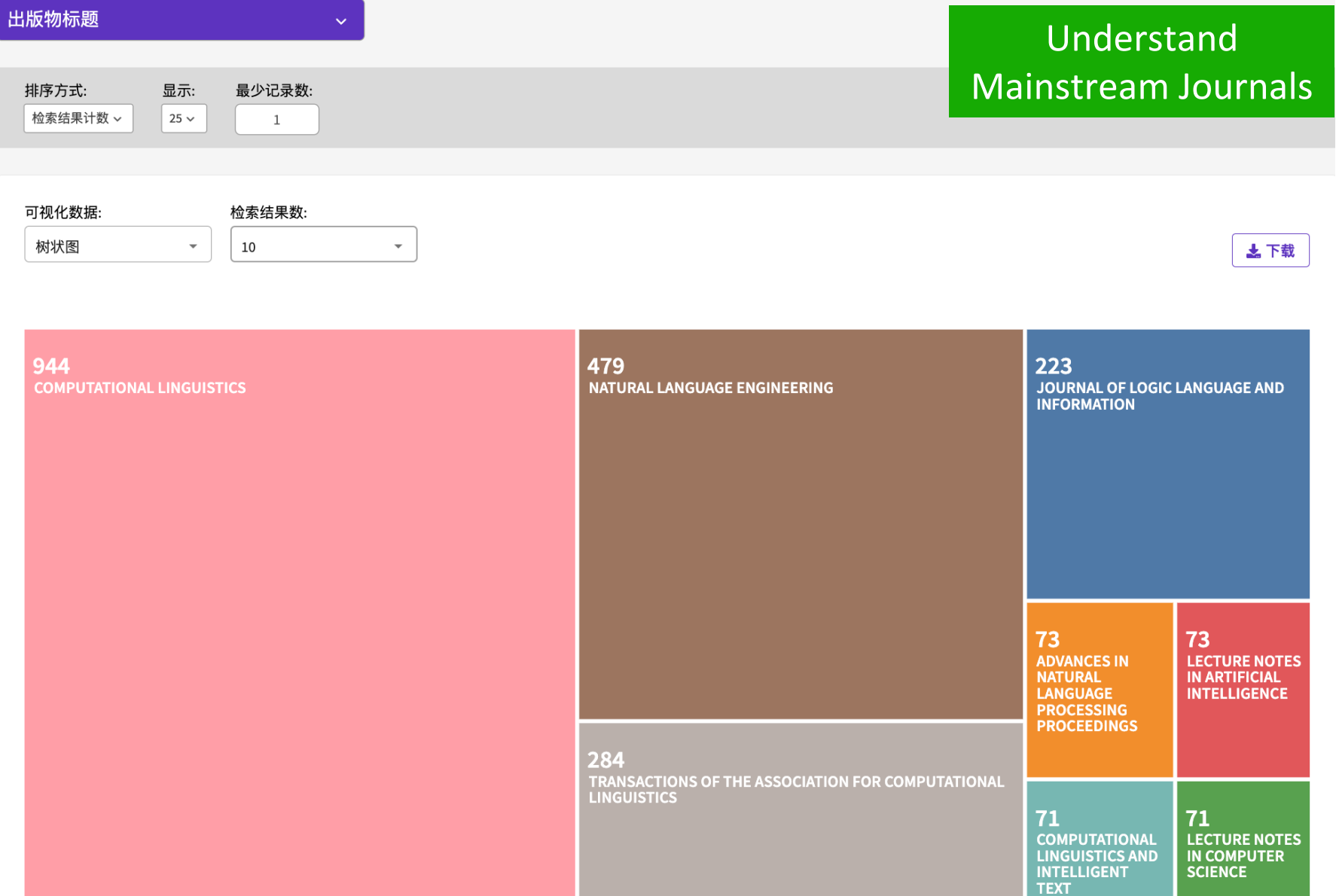
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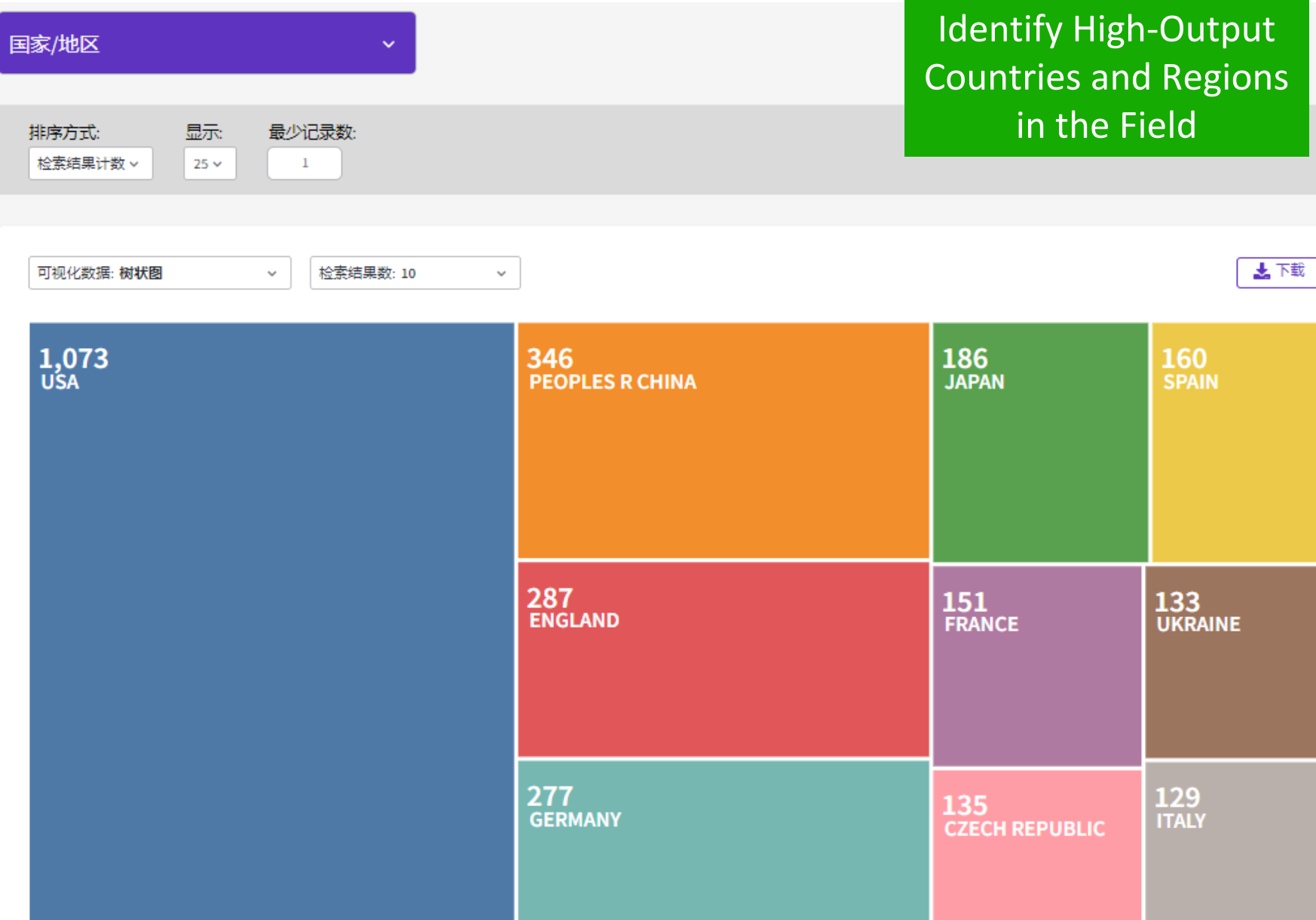
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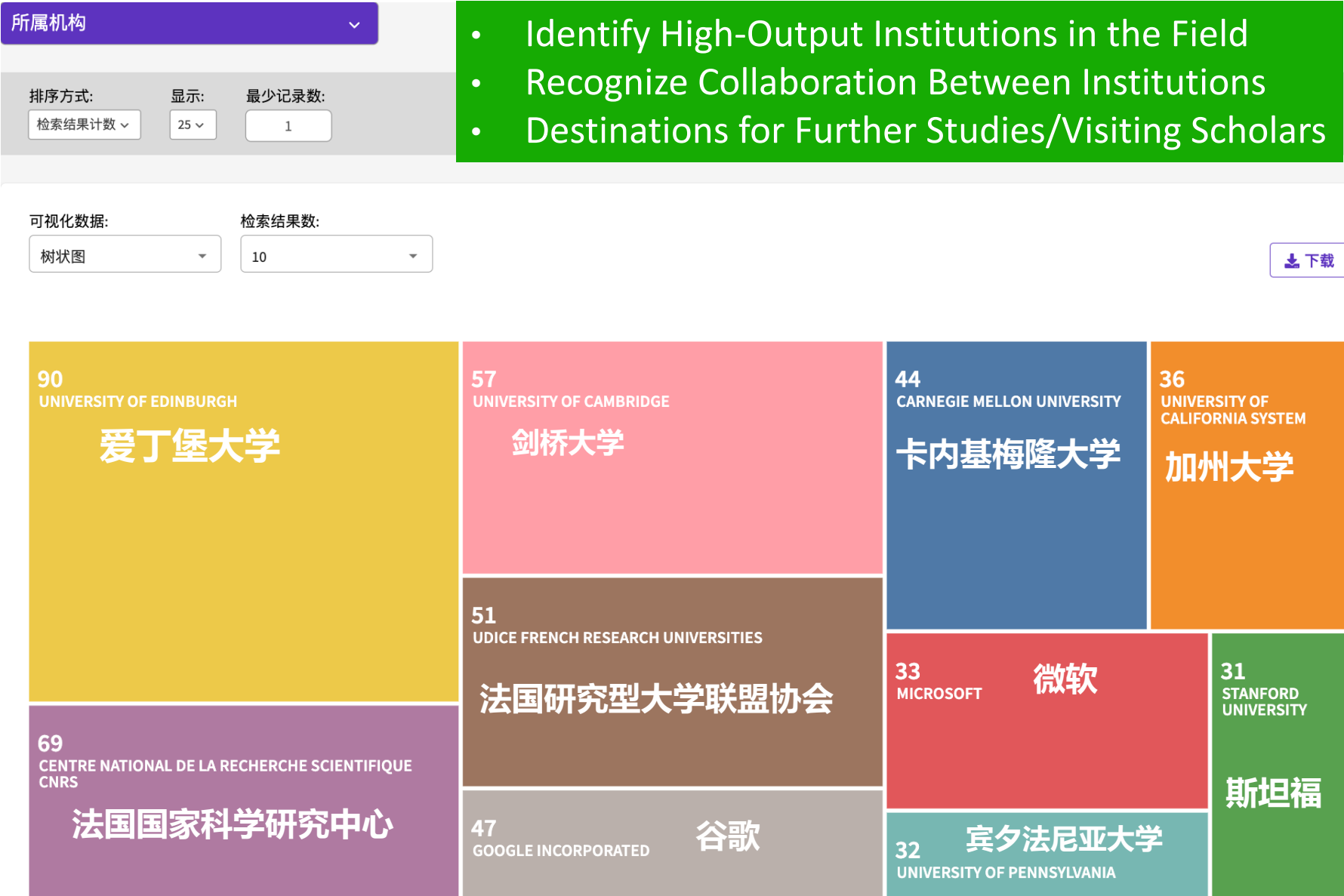
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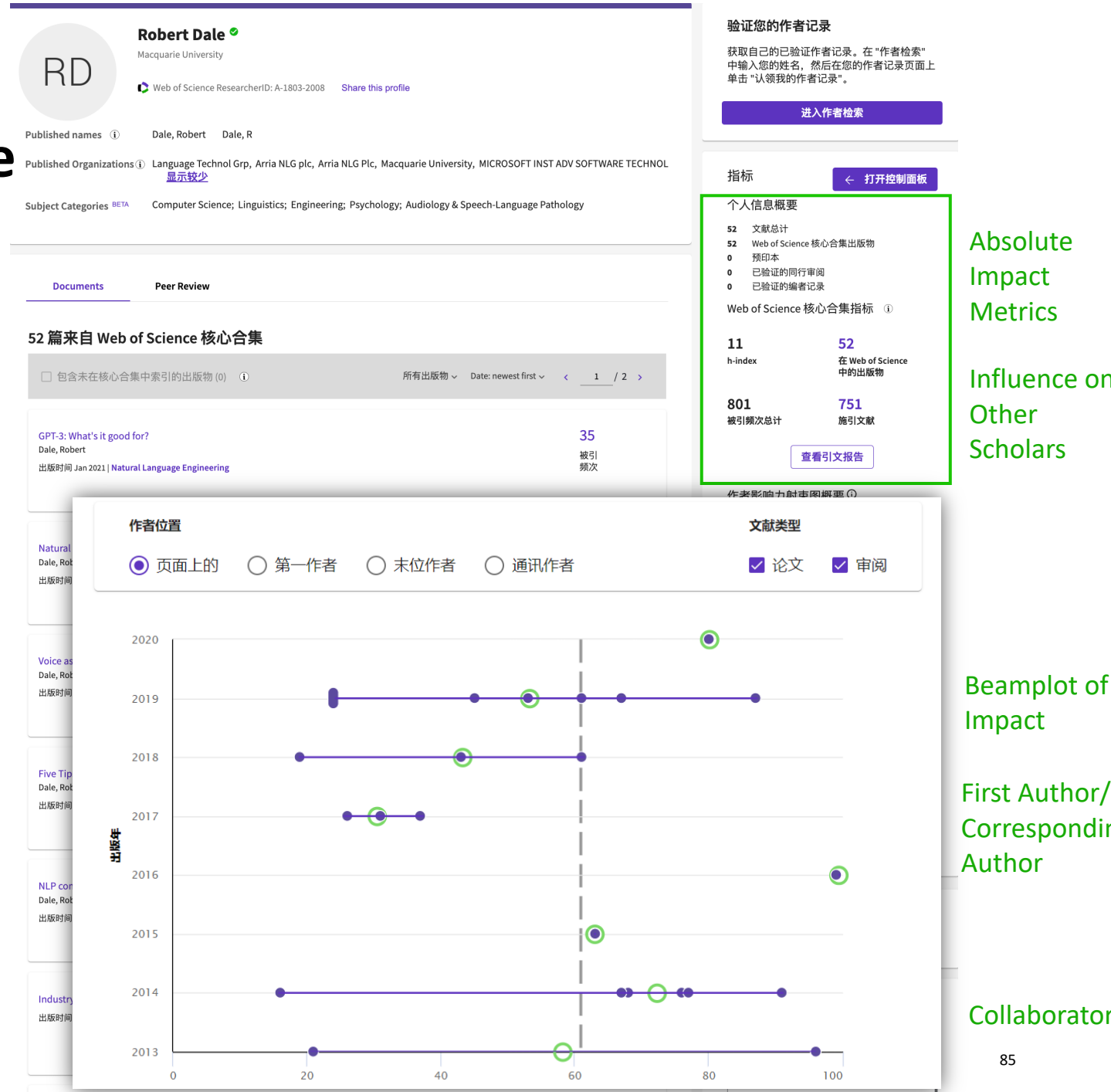
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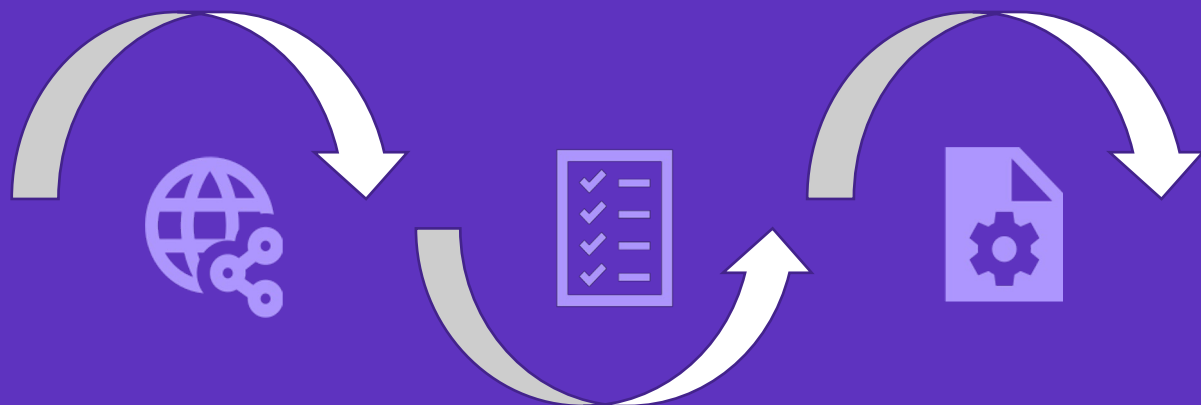
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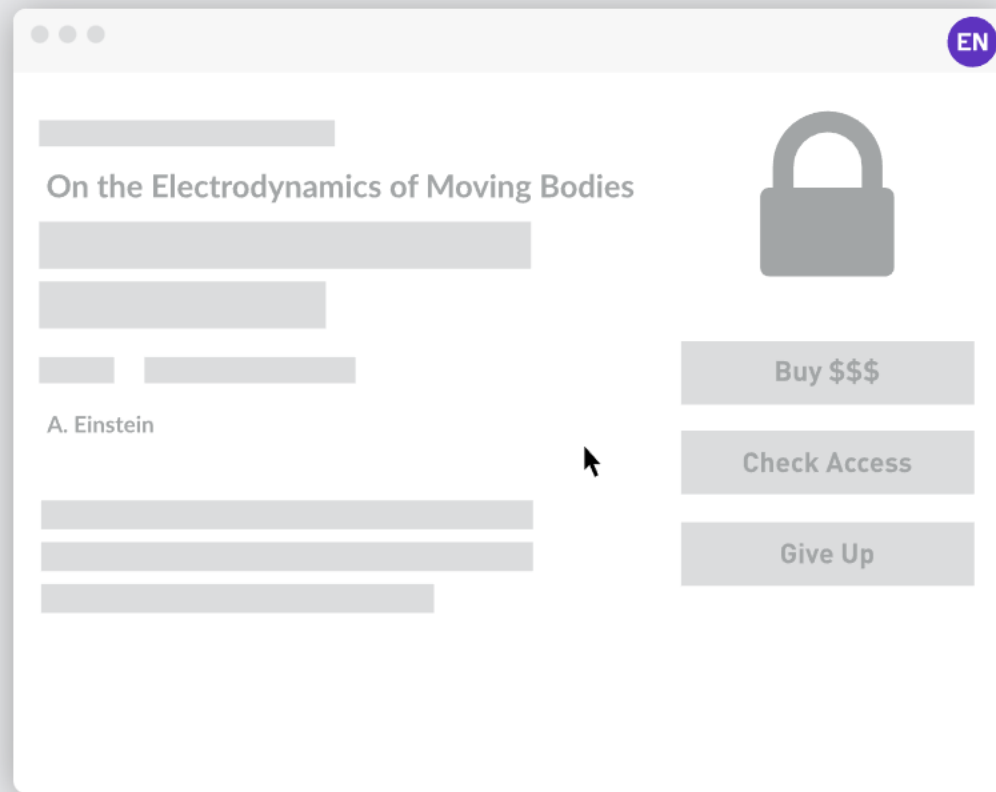
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作者: Qiu, GA (Qiu, Guang) ^[1]; Liu, B (Liu, Bing) ^[2]; Bu, JJ (Bu, Jiajun) ^[1]; Chen, C (Chen, Chun) ^[1]

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COMPUTATIONAL LINGUISTICS

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摘要:

Analysis of opinions, known as opinion mining or sentiment analysis, has attracted a great deal of attention recently due to many practical applications and challenging research problems. In this article, we study two important problems, namely, opinion lexicon expansion and opinion target extraction. Opinion targets (targets, for short) are entities and their attributes on which opinions have been expressed. To perform the tasks, we found that there are several syntactic relations that link opinion words and targets. These relations can be identified using a dependency parser and then utilized to expand the initial opinion lexicon and to extract targets. This proposed method is based on bootstrapping. We call it double propagation as it propagates information between opinion words and targets. A key advantage of the proposed method is that it only needs an initial opinion lexicon to start the bootstrapping process. Thus, the method is semi-supervised due to the use of opinion word seeds. In evaluation, we compare the proposed method with several state-of-the-art methods using a standard product review test collection. The results show that our approach outperforms these existing methods significantly.

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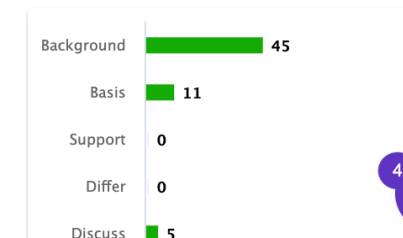
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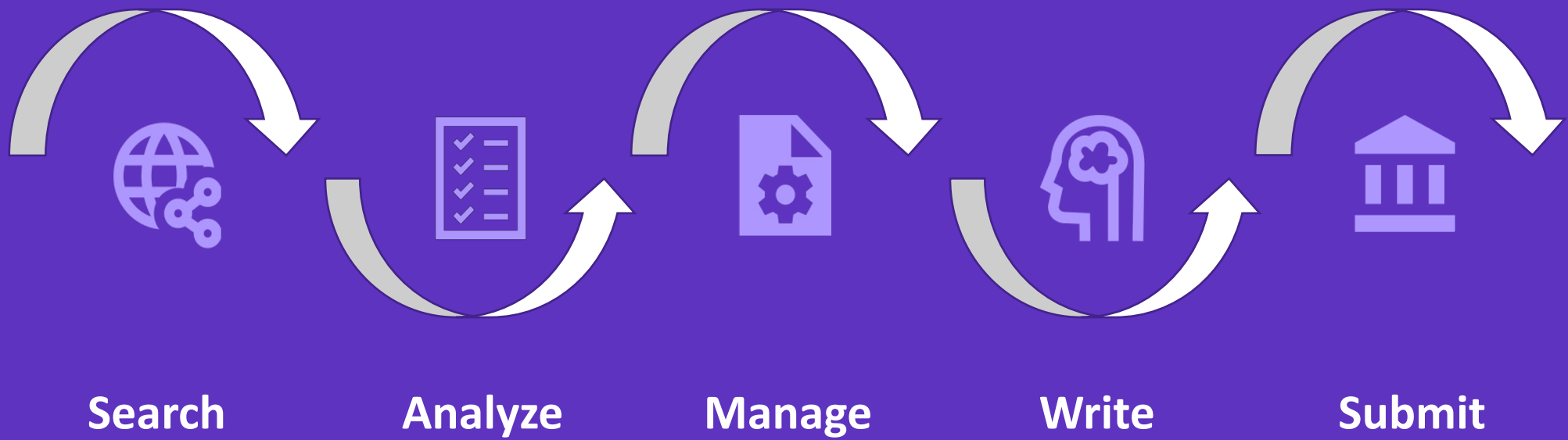
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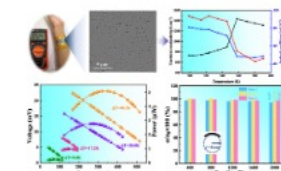
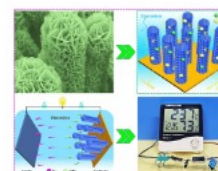
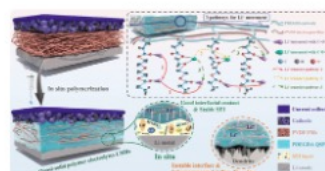
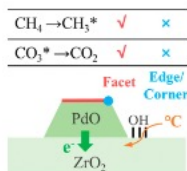
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