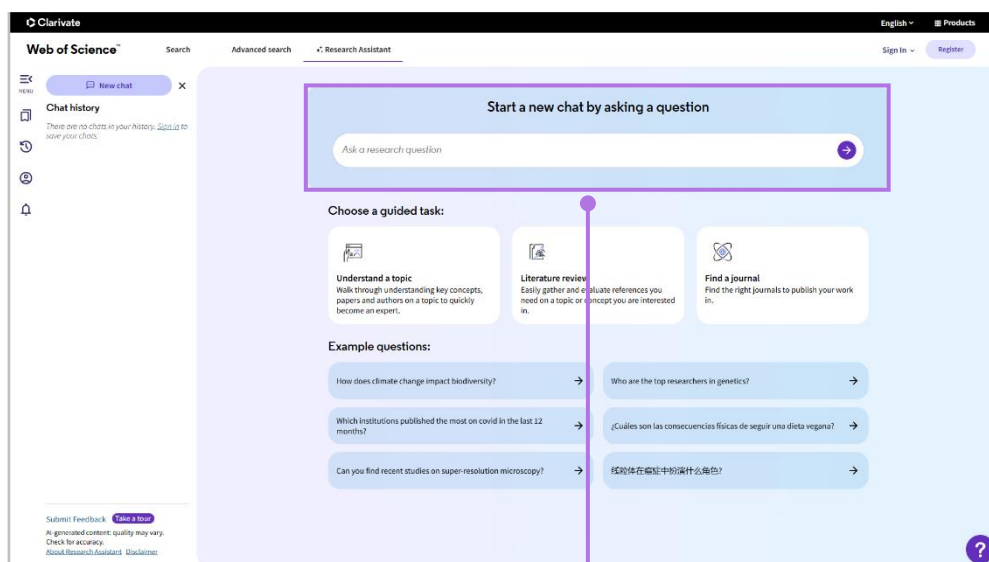


Web of Science Research Assistant Reference Guide

What is Web of Science Research Assistant

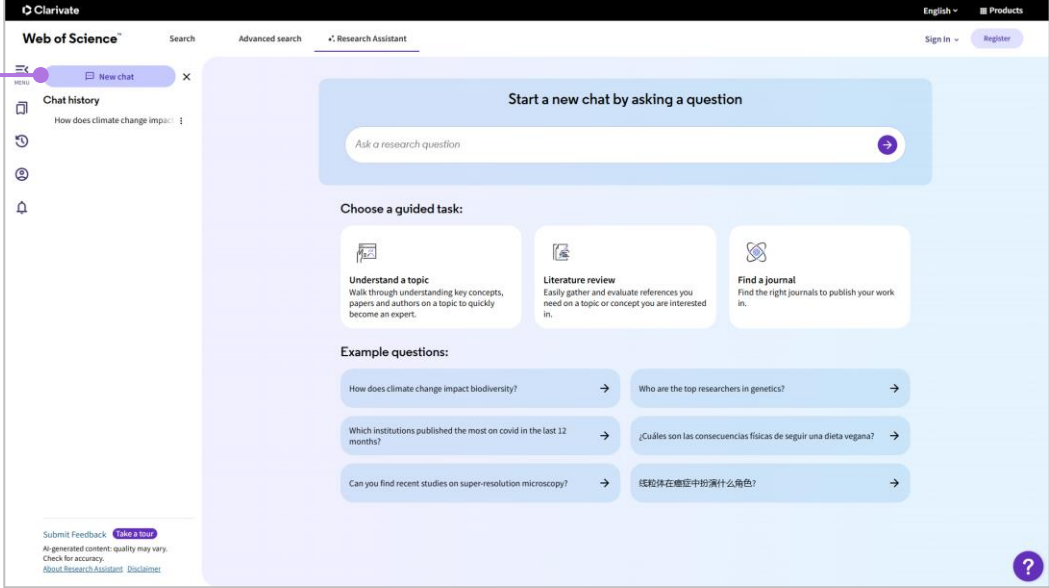
Web of Science Research Assistant is the new generative AI-powered tool that provides natural language search, multilingual search capabilities, concise overviews of results, task-based guided walkthroughs, and visualizations to enhance your research. The assistant helps you get more out of your existing Web of Science Core Collection subscription. Researchers can search for documents, explore topics, start literature reviews, find suitable journals for publication, interact with visualizations, or identify experts in a specific field.



Search by Natural Language

1. Click on the Search bar
2. Enter your query
 - Multi-lingual search
 - Document search
 - Question and Answer
 - Trends and Analytics
 - Search for seminal or foundational papers
 - Search by visualization
 - Search by aggregations or counts
3. Submit query
 - Press **Enter** on the keyboard or click the search icon

Start new chat



The screenshot shows the Web of Science Research Assistant interface. On the left, there is a sidebar with a 'New chat' button and a 'Chat history' section. The main area is titled 'Start a new chat by asking a question' and contains a search bar, three guided tasks (Understand a topic, Literature review, Find a journal), and several example questions in different languages. A purple box highlights the 'New chat' button in the sidebar.

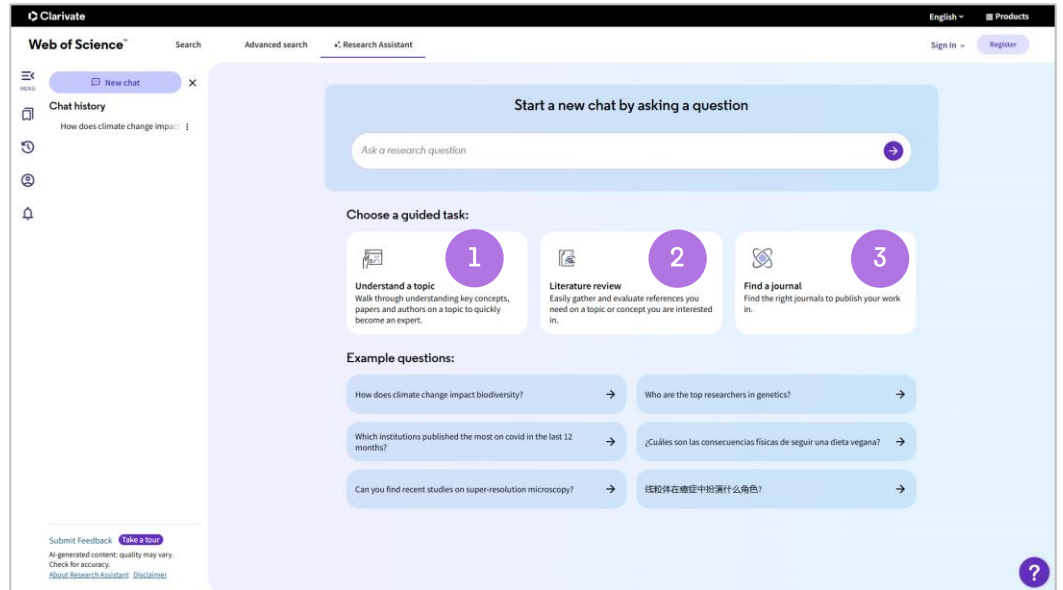
- Click on the **New Chat** to begin a new conversation

Save your chat history

To save your searches and keep a complete record of your past queries, you need to be **signed-in** to Web of Science. If you already have an account, simply log in. If not, first verify if your institution has a subscription to Web of Science. If it doesn't, you can always create a free account to get started.

- Searches are automatically saved
- Chats are automatically sorted
 - Most recent 6 months
 - Older searches, beyond 6 months
- Click on the 3-dot menu to edit, rename, or delete a chat

Choose a guided task



1. Understand a topic

- Click on **Understand a topic panel** to initiate a chat
- Enter your topic of interest
- Research Assistant will return 8 seminal papers (foundational papers)
- Click on **View additional documents relevant to this response** to view up to 100 seminal papers

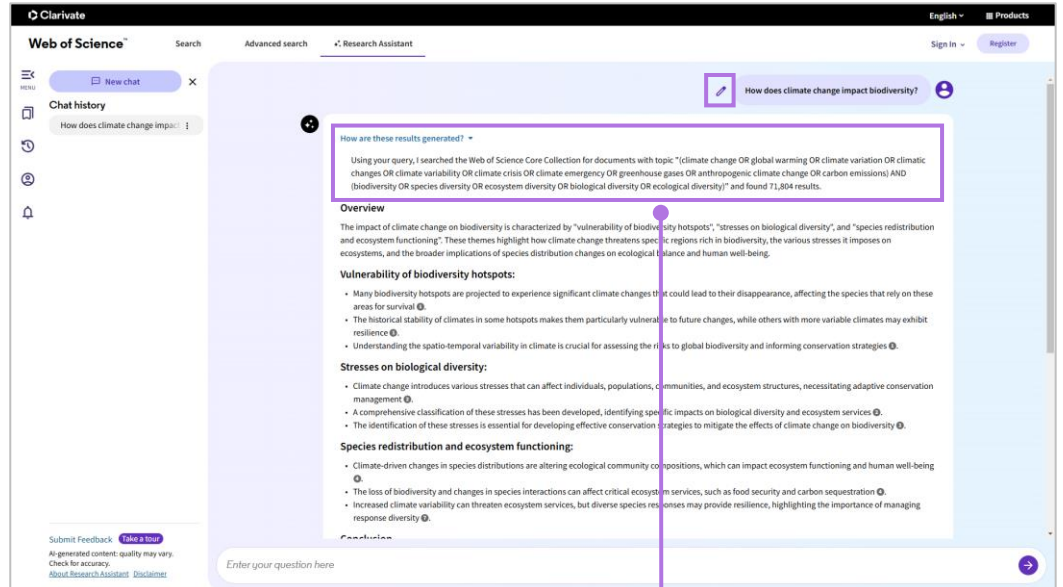
2. Literature review

- Click on **Literature review panel** to initiate a chat
- Enter your research question
- Interact with the topic map
- 8 review articles returned
- Click on **View as a set of results** to view all review papers

3. Find a journal

- Click on **Find a Journal panel** to initiate a chat
- Provide title of your document
- Provide a brief description of your abstract (up to 100 words)
- 5 journals that match your title and abstract will be returned

How are the results generated



- Click on **How are these results generated**
- View expanded topic
 - Copy query for precise search in Advanced search
- View number of results found

Edit Modification

- Click on the pen icon
- Modify your query
- Click on update query button or press Enter to rerun the search

Response structure

- Overview provides a brief introduction to the response
- 3 key highlights of findings
- Conclusion summarizes the key points
- View 8 references documents
- Click on **View additional documents relevant to this response** to view all results

View Additional Document details

Click on article title to open side overlay

1. View full record
2. Save to a Marked list or EndNote
3. View original abstract
4. View citation network
5. Learn more about the document to view vizualizations

Conclusion

In summary, climate change significantly impacts biodiversity through the vulnerability of biodiversity hotspots, various in species distributions that affect ecosystem functioning. Understanding these themes is essential for developing effective adverse effects of climate change on biodiversity.

👍 🗨️ 📄 Copy Text

I have used the document information and abstracts from 8 of these to answer your query and introduce you to the relevant documents by clicking the references in the response. To view the full set of results, click on 'View additional document list'.

View 8 referenced documents

- Vulnerability of global biodiversity hotspots to climate change**
Trew, BT and Maclean, IMD
APR 2021 | GLOBAL ECOLOGY AND BIOGEOGRAPHY
- Classification of Climate-Change-Induced Stresses on Biological Diversity**
Geyer, J; Kiefer, I; (...); Ibsch, PL
AUG 2011 | CONSERVATION BIOLOGY
- The pace of biodiversity change in a warming world**
Sunday, JM
APR 2020 | NATURE

Vulnerability of global biodiversity hotspots to climate change

🔍 Early Access 📄 Review Article

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

Authors
Trew, BT and Maclean, IMD

Journal GLOBAL ECOLOGY AND BIOGEOGRAPHY
Volume 30 Issue 4 Page 768-783
10.1111/ggb.13272

Abstract
Motivation More than half of Earth's species are contained in a mere 1.4% of its land area, but the climates of many of these biodiversity hotspots are projected to disappear as a consequence of anthropogenic climate change. There is growing recognition that spatio-temporal patterns of climate in biodiversity hotspots have shaped biological diversity over a variety of historical time-scales, yet these patterns are rarely taken into account in assessments of the vulnerability of biodiversity hotspots to future climate change. In our review, we synthesize the climatic processes that have led to the diversification of hotspots and interpret what this means in the context of anthropogenic climate change. We demonstrate the importance of mesoclimatic processes and fine-scale topographical heterogeneity, in combination with climatic variability, in driving speciation processes and maintaining high levels of diversity. We outline why these features of hotspots are crucial to understanding the impacts of anthropogenic climate change and discuss how recent advances in predictive modelling enable vulnerability to be understood better.

Location Global.

Main conclusions We contend that many, although not all, biodiversity hotspots have climate and landscape characteristics that create fine-scale spatial variability in climate, which potentially buffers them from climatic changes. Temporally, many hotspots have also experienced stable climates through evolutionary time, making them particularly vulnerable to future changes. Others have experienced more variable climates, which is likely to provide resilience to future changes. Thus, in order to identify risk for global biodiversity, we need to consider carefully the influence of spatio-temporal variability in climate. However, most vulnerability assessments in biodiversity hotspots are still reliant on climate data with coarse spatial and temporal resolution. Higher-resolution forecasts that account for spatio-temporal variability in climate and account better for the physiological responses of organisms to this variability are much needed to inform future conservation strategies.

Citation Network in Web of Science Core Collection

119 128 149

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

📄 Analyze this document's references
📄 Find related references maps

View 8 referenced documents

I have used the document information and abstracts from 8 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 additional documents relevant to this response' at the end of the list.

View 8 referenced documents

- Vulnerability of global biodiversity hotspots to climate change**
Trew, BT and Maclean, IMD
APR 2021 | GLOBAL ECOLOGY AND BIOGEOGRAPHY
- Classification of Climate-Change-Induced Stresses on Biology**
Geyer, J; Kiefer, I; (...); Ibisch, PL
AUG 2011 | CONSERVATION BIOLOGY
- The pace of biodiversity change in a warming world**
Sunday, JM
APR 2020 | NATURE
- Biodiversity redistribution under climate change: Impacts on**
Pecl, GT; Araújo, MB; (...); Williams, SE
MAR 31 2017 | SCIENCE

119 Citations

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Journal information

GLOBAL ECOLOGY AND BIOGEOGRAPHY
Publisher name: WILEY

Journal Impact Factor™
2023 6.3 7.7
Five Year

JCR Category	Category Rank	Category Quartile
ECOLOGY in SCIE edition	12/197	Q1
GEOGRAPHY, PHYSICAL in SCIE edition	4/65	Q1

Source: Journal Citation Reports 2023. [Learn more](#)

Journal Citation Indicator™
2023 1.78 1.59
2022

JCI Category	Category Rank	Category Quartile
ECOLOGY in SCIE edition	12/197	Q1
GEOGRAPHY, PHYSICAL in SCIE edition	3/65	Q1

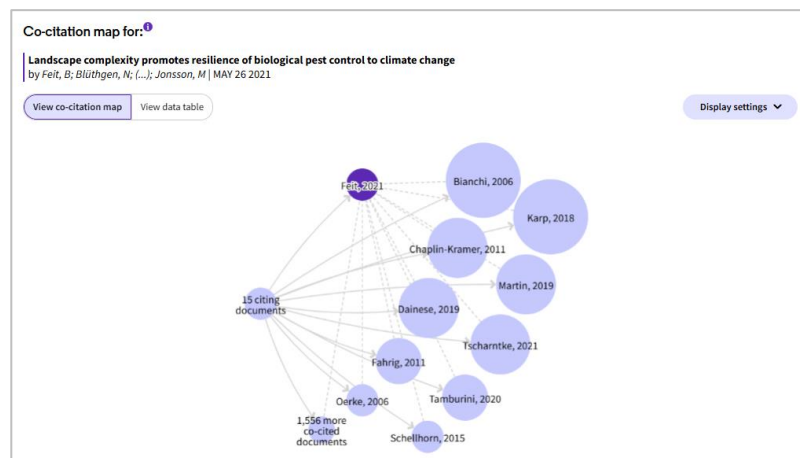
Research Assistant will return 8 referenced documents

1. Click Journal/Publication title to view Journal information as side overlay
2. Click on author name to view author profile

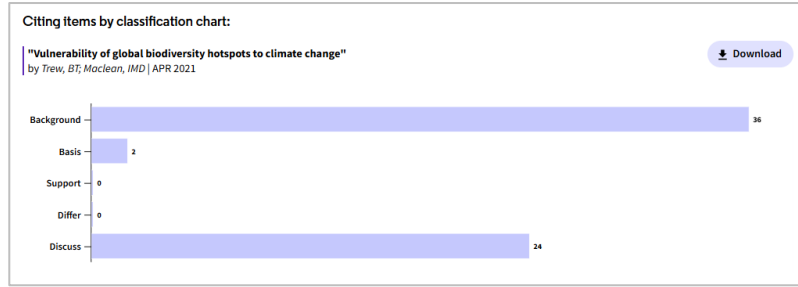
View more

Click on **View more** to see article-level visualizations.

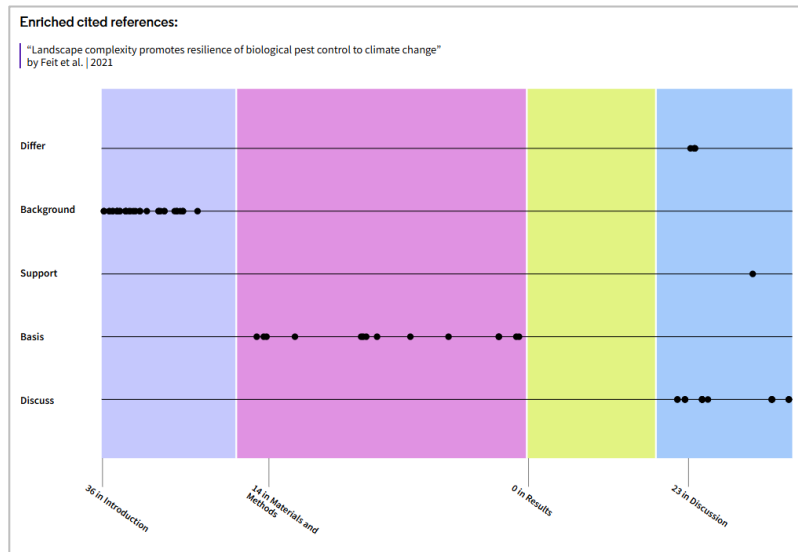
1. Click on **See related documents** to view co-citation map



2. Click on **How this document has been mentioned** to view citing items by classification chart



3. Click on **Analyze this document's references** to view enriched cited references



Suggested Interactive visualizations

What would you like to do?

- 1 Documents over time graph for biodiversity
See patterns in publishing on this topic
- 2 See related and connected concepts
Topic Map
- 3 See top authors on this topic
Most cited and connected authors

I want to know about seminal papers on Biodiversity

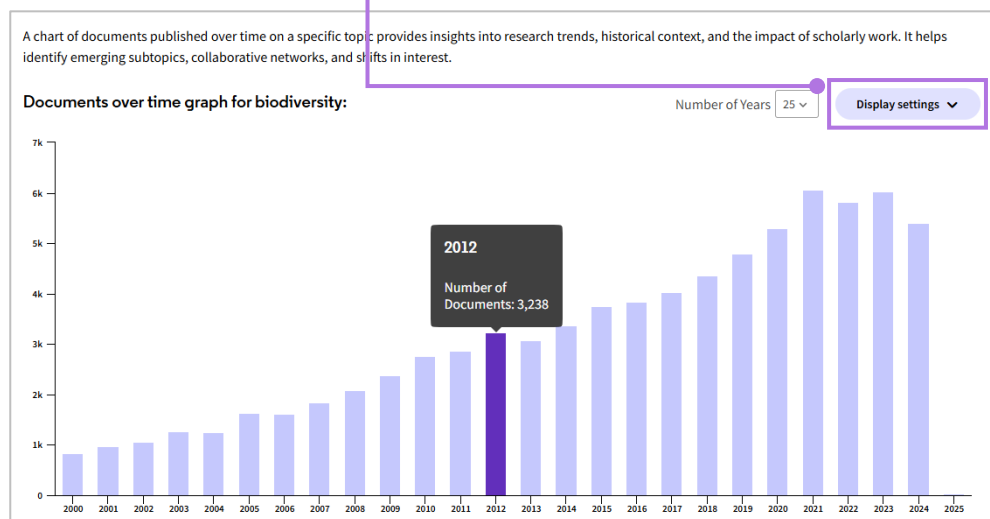
What are the primary mechanisms through which climate change affects biodiversity?

How does climate change influence species distribution and habitat loss?

- 4

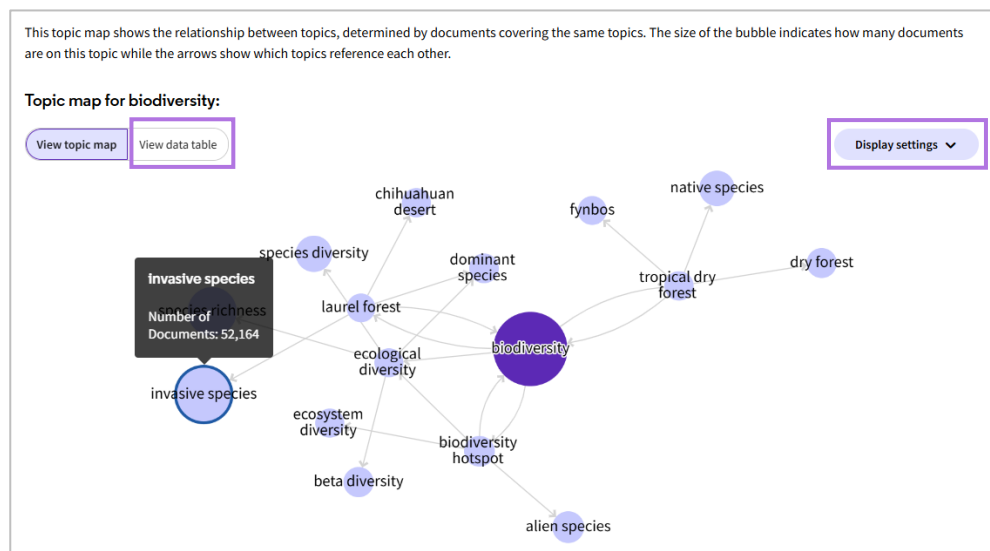
1. Documents over time graph shows documents on the topic per year up to 100 years

- Hover on each bar to view number of documents
- Click on each bar to view all documents relating to the topic and year
- Click **Display settings** to view in full screen or download and save



2. Topic map shows relationships between that topic and sub-topics or related topics

- Hover over each bubble to view the number of documents
- Click on each bubble to view all documents relating to the topic
- Click on **View table** to view data as a table
- Click **Display settings** to view in full screen or download and save



3. Top Authors

- Click on See top authors on this topic
- View 6 authors which were published and cited more on given topic
- View 10 topics on which the authors have published on
- **View author profile**

I searched the Web of Science Core Collection using advanced analytics and found 71,804 documents with the topic biodiversity. Here are the profiles of the top 6 authors whose documents in this set have been the most cited.

Wilson, Edward O.

Harvard University
Web of Science Researcher ID: CHK-2398-2022

Topics (10)
Biodiversity Evolution Sociobiology Eusociality Biology >

[View author profile](#)

Preston, Frederick W.

University of Nevada Las Vegas
Web of Science Researcher ID: DMS-2355-2022

Topics (10)
Glass Strength Bottle Gambling Stress Behavior B >

[View author profile](#)

MACARTHUR, RH

Web of Science Researcher ID: DDN-7773-2022

Topics (10)
Specie Population Bird Species diversity Community >


[View author profile](#)

Noss, RF

Conservat Sci Inc
Web of Science Researcher ID: DLD-6202-2022

Topics (10)
Conservation Biodiversity Conservation biology Protected >


[View author profile](#)

 **Kevin Gaston**
Highly Cited

University of Exeter
Web of Science Researcher ID: AFK-1483-2022

Topics (10)
Biodiversity Specie Species richness Conservation Bird >

[View author profile](#)

 **Robert Anthony Fisher**

Swinburne Univ Technol Entrepreneurship & Technol
Web of Science Researcher ID: H-6779-2019

Topics (10)
Liver transplantation Specific heat capacity Molar pregnancy >

[View author profile](#)

4. Suggested related queries

- Click on any of the 3 suggested queries
- Select one query at a time
- Overview, 3 key points and conclusion provided
- Click **View additional documents** to view all result

1

2